

# Exhibit A

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1 UNITED STATES DISTRICT COURT  
2 SOUTHERN DISTRICT OF NEW YORK

3 UNITED STATES OF AMERICA,

4 v.

23 Cr. 10 (AS)

5 AVRAHAM EISENBERG,

6 Defendant.

Trial

7 -----x  
8 New York, N.Y.  
9 April 15, 2024  
8:55 a.m.

10 Before:

11 HON. ARUN SUBRAMANIAN,

12 District Judge  
13 -and a jury-

14 APPEARANCES

15 DAMIAN WILLIAMS

United States Attorney for the  
Southern District of New York

16 PETER J. DAVIS

17 THOMAS S. BURNETT

TIAN HUANG

18 Assistant United States Attorneys

19 WAYMAKER LLP

Attorneys for Defendant

20 BRIAN E. KLEIN

ASHLEY MARTABANO

21 RILEY SMITH

-and-

22 TALKIN MUCCIGROSSO & ROBERTS, LLP

SANFORD N. TALKIN

23 NOAM B. GREENSPAN

24 Also Present: Brandon Racz, FBI

Ryan Sears, Paralegal Specialist-USAO

25 Jonathan Oshinsky, Paralegal Specialist-USAO

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(Trial resumed; jury not present)

THE COURT: Ms. Huang, who is going to address from your side the issues with the Sheridan disclosure?

MS. HUANG: I will, your Honor.

THE COURT: Where are we at? Have we come to any further understandings.

MS. HUANG: I think the issues are as outlined in the parties' letters. Essentially, I think -- overall, there is -- the theme, I think, your Honor is going to hear from us over and over in this is a lot of these opinions that Mr. Sheridan now wants to provide are things that should have been disclosed much, much earlier. There is no reason whatsoever that they were held up at this point, and obviously that puts the government in an awkward position because we now have to -- last night at 8 p.m., after the Court's order, learned for the first time about many of these areas and have to really kind of now deal with that.

I think the only one that was kind of arguably close in terms of like timing was their argument, for example, that they needed to rebut Dr. Mordecai and Mr. Jain's testimony regarding certain demonstratives and exhibits. It was only from your Honor's actual order that they specified that what they cared about actually wasn't Mr. Jain from their supplemental disclosure. It was regarding Mr -- Dr. Mordecai, rather, and it was specifically on the topics of partial

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1 liquidations and funding payments. As the Court probably  
2 remembers, Dr. Mordecai specifically testified that as to  
3 liquidations, that was an area that was outside the scope of  
4 his testimony. He was not looking into that whatsoever. Mr.  
5 Greenspan asked him over and over and that was his response.

6 So it feels really like the defense is putting up a  
7 straw man here saying, this was an area that he touched on when  
8 really it was an area that they kind of opened the door on.  
9 And now, with no warning until literally 8 p.m., 8:08, I  
10 believe, actually they let us know that this is something that  
11 they want their expert to testify on.

12 THE COURT: Understood.

13 Who is going to address this from the defendant's  
14 side?

15 MR. KLEIN: Me, your Honor.

16 THE COURT: What's going on here? I think the  
17 government makes a fair point that prior to last night at 8  
18 p.m., these opinions that are specified in the supplemental  
19 disclosure were not previously disclosed. The subject matter  
20 may have been previously included, arguably, in some of the  
21 prior disclosures. The opinions themselves were not included  
22 in any prior disclosure, as far as I can see.

23 To give you an example, when you were talking about  
24 the repayment parameters and how that operated, you relate that  
25 back to the disclosure concerning changes to the Mango Markets

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1 platform. That's the subject matter. But the opinion itself  
2 was not previously disclosed. Maybe you can shed some light on  
3 this. If I'm wrong about it, I have all your disclosures right  
4 here. I'm happy to take a look. I want to understand why  
5 there isn't a timeliness problem, and then we can talk about  
6 the consequences of that.

7 MR. KLEIN: Yes, your Honor.

8 Do you want me to take them in turn, or I can talk  
9 about each of them? Do you want me to focus on that one you  
10 just mentioned?

11 THE COURT: Let's start from just basics first.  
12 Mr. Sheridan -- literally this that you have written in the  
13 supplemental disclosure, this is what he is going to say,  
14 right?

15 MR. KLEIN: There are other things that we previously  
16 disclosed. This was out of an abundance of caution where they  
17 think there are new topics, and we wanted to disclose that.

18 THE COURT: It's not topics.

19 When Mr. Sheridan is asked questions relating to these  
20 areas, what he is going to say is literally what's stated here  
21 in the disclosure, right? I understand the words will be a  
22 little bit different, but this is what he is going to testify  
23 to and nothing else within these areas.

24 MR. KLEIN: Yes. The plan is for him to talk about  
25 the two repay-bad-debt proposals and to explain the mechanics

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1 of them.

2 THE COURT: What's the relevance of that?

3 MR. KLEIN: A couple of things, your Honor.

4 Right now the jury has only seen those slides and  
5 doesn't understand necessarily how they actually operated or  
6 the timing of them. They have testimony that the second vote  
7 was approved shortly after but not how shortly. They also  
8 don't know when the first vote was put up, which was within a  
9 few hours of my client's trade, not days, literally I think  
10 three hours.

11 THE COURT: What's the relevance of that?

12 MR. KLEIN: It goes directly to the heart of this case  
13 that he didn't have intent to like steal something from the  
14 Mango Markets users that these withdrawals happened and  
15 immediately he was negotiating in a settlement. That goes  
16 right to his mental state, within three hours of this  
17 happening.

18 THE COURT: Why wasn't that in one of your prior  
19 disclosures? There is two prior disclosures. Why wasn't that  
20 specified in the prior disclosures if it goes to the heart of  
21 your case? I think that's the government's primary submission  
22 here, is that whether or not they agree with you that it bears  
23 on intent, it's not in these prior disclosures, and we had two  
24 of them. I bent over backwards to allow the defense to put in  
25 the supplemental disclosure the last time which the government

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1 had an issue with, let you put it in. We considered it and  
2 this is not in there.

3 MR. KLEIN: Your Honor, I think a couple of things  
4 happened along the way.

5 One is -- just so you know, when we got a witness list  
6 of witnesses from the government on March 25, it included  
7 witnesses who -- we would have brought in this evidence, just  
8 to be very clear. And then the way the case developed, these  
9 facts became more prominent and more focused. So I understand  
10 that we maybe could have been a little bit clearer back on  
11 January 12 and that this precise language was not in our  
12 disclosure on January 12, but I think all along it has been  
13 very clear that Mr. Sheridan was going to talk about the  
14 mechanics of how Mango Markets operated and the mechanics of  
15 Avi, our client's trades and things that flowed from that.  
16 This is not like we are talking about FTX or AscendEX. We are  
17 not going off into some total lark. We are really focused on  
18 squarely on what he did and how Mango Markets operated.

19 THE COURT: Mr. Sheridan is not going to -- this is  
20 where I think it's really important to avoid any prejudice to  
21 the government. He's literally just going to be saying, here  
22 is when it happened. The money went back here. He is not  
23 going to be saying: And you can infer from this that people at  
24 Mango Markets thought this or you can infer from this that  
25 Mr. Eisenberg didn't have an intent. He is not going to do any

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1 of that. He is literally just going to say, these are bare  
2 facts and really the issue is just that, otherwise, you would  
3 not have a witness for these facts to just come through.

4 MR. KLEIN: Yes, your Honor, that's absolutely right.  
5 You made it very clear at our hearing on March 25, he can't  
6 talk about the things you just mentioned, our client's intent,  
7 what's in the head -- even what's in the heads of the people  
8 who designed the protocol. It's a technical thing, these  
9 votes, the timing, and you need an expert to look at the code  
10 and look at the protocol to see this. That's why we had Mr.  
11 Sheridan.

12 THE COURT: Aren't the base documents in the record so  
13 you can make the argument on closing, regardless of whether Mr.  
14 Sheridan testified about it or not?

15 MR. KLEIN: The base documents are, and they were put  
16 in the by the government. So that's one thing also, just to be  
17 clear.

18 THE COURT: What expertise?

19 MR. TALKIN: Can I just have one second?

20 THE COURT: Yes, you may.

21 MR. KLEIN: Sorry, your Honor.

22 THE COURT: What is Mr. Sheridan's expertise that he  
23 adds to this? That's what I'm trying to understand -- the  
24 documents -- I want to make sure that neither side is  
25 prejudiced here. The documents are in the record, so on

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1 closing you can certainly make the argument you are making  
2 right now, that the repayment was proposed within hours of the  
3 actual incident and for that reason that negates the intent  
4 that the government is trying to prove. I got that, that  
5 argument.

6 How does he lend any kind of expertise to this?

7 MR. KLEIN: Two points on that, your Honor.

8 First, the exact timing isn't in. The testimony is  
9 shortly -- after Mr. Talkin asked: Was it within hours? The  
10 witness wasn't sure. He just said shortly after, within days.  
11 Just to be sure, that isn't precisely in.

12 Two, you need someone who is able to look at the code  
13 and then translate that and then say this was posted when, and  
14 that's Mr. Sheridan. There is an expertise there. Your Honor  
15 talked about it. Jurors aren't able -- I can't read code.  
16 Jurors aren't going to be able to understand code. That's  
17 where the expertise is, your Honor.

18 THE COURT: Is Mr. Sheridan able to read code?

19 MR. KLEIN: Yes, he is. He looked at the code, and he  
20 can see that. He will testify along those lines.

21 Ms. Martabano is the one doing his direct. She can  
22 share the questions in advance with your Honor if you have  
23 concerns about the precise line of questioning.

24 THE COURT: I think that if the government, and if Ms.  
25 Huang was to make an application to *voir dire* the witness on

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1 his capability and ability to examine code and comprehend what  
2 it means, then that would be a fair request made by the  
3 government. If that's the reason why it's important to have  
4 him testify, because he can understand code and he has enough  
5 to cross the threshold on Rule 702, then we can address that.

6 That's the first area.

7 MR. TALKIN: Your Honor, just one more fact as far as  
8 in relation to the discussions you just had with Mr. Klein. We  
9 are going to bring in Mr. Eisenberg's computer searches, and in  
10 there is one that went to proposals, and it circumstantially  
11 will show the time of the proposal. We were talking about  
12 timing and everything. And I want the Court to be aware of  
13 that fact because it seemed like it would or could affect your  
14 analysis, and I did not want you not to have that when you were  
15 saying to him about the timing and the argument.

16 MR. KLEIN: That's not through Mr. Sheridan, to be  
17 clear. That's through a separate witness, summary-type witness  
18 like the government uses, a private investigator who is  
19 bringing in certain exhibits.

20 THE COURT: That's a subject of separate objections  
21 that the government has raised.

22 MR. KLEIN: Yes, your Honor.

23 THE COURT: Let's figure this out, and then we will  
24 move to Mr. Dwyer.

25 MR. TALKIN: Those objections have been resolved.

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1 THE COURT: They have been resolved.

2 Then is Mr. Sheridan going to be relying on any of  
3 that?

4 MR. TALKIN: No. You had said that there was -- we  
5 were talking about the arguments and how it might affect your  
6 decision. I just wanted you to have -- let you know that that  
7 was coming so that can be factored in too.

8 THE COURT: How would you propose that it be factored  
9 in? I'm just missing something.

10 MR. KLEIN: In our favor, your Honor.

11 MS. HUANG: Your Honor, I think it is because in that  
12 case there is no need for Mr. Sheridan, right, because there is  
13 the timing that your Honor has noted. The specific question  
14 that they have said that they wanted to propose to Mr. Sheridan  
15 is to just get the timing of those proposals in. It sounds  
16 like Mr. Dwyer can do that.

17 Also, your Honor, if I can just note, for I think all  
18 of these areas too, one of the things that they have addressed  
19 is that Mr. Sheridan has relied on 3500 material provided by  
20 the government. There is obviously a double hearsay issue  
21 there because it's the statement of whatever witness and it's  
22 the notes of the government on those statements. That's yet  
23 another issue. We don't know specifically how Mr. Sheridan has  
24 relied on what specific materials. They have just broadly  
25 listed it. That's another category.

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1 MR. KLEIN: Your Honor, we are talking about the  
2 DeCapua testimony. We put that in there out of an abundance of  
3 caution. He has looked at the 3500 materials. This specific  
4 testimony is not based on them. The prosecutor is welcome to  
5 ask and inquire what his basis for his knowledge is. That's  
6 regular cross-examination.

7 THE COURT: These three areas, how many questions do  
8 you actually have on this?

9 MR. KLEIN: Ms. Martabano has prepared his direct.

10 THE COURT: If it's like --

11 MR. KLEIN: It's not that many questions, your Honor.

12 MS. MARTABANO: On the repayment proposals, it's less  
13 than a page of large font.

14 On the other topics -- I think, because of the Court's  
15 earlier ruling, as we understood it, we do tie most of his  
16 testimony to his understanding of the computer code and how if  
17 the computer code bears out what's in the document. So, for  
18 example, the government has put in GX-1011, which refers to --  
19 they describe it as a foundational document for Mango Markets  
20 and has tons of information about how the protocol was meant to  
21 function. They have shown the FAQ section. They have shown  
22 lots of it.

23 And for us we want to be able to say with Mr.  
24 Sheridan, does the code match that? So if you've looked at the  
25 code, does it actually match what that says? This says, if you

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1 run out of your collateral, then you will be liquidated. Does  
2 the code say that? Or does just the document say that?

3 It is sort of tying the computer code because I think  
4 it's apparent to everyone in the room that we will be arguing  
5 that the code really did control here. If the code and the  
6 documents, if there is a discrepancy between the code and the  
7 documents, then it's important to know what the code said.

8 So my plan is mostly to walk him through much of the  
9 Mango Markets documentation to say, is this how it works  
10 according to the code? Is this also how it works according to  
11 the code? My understanding is we had already litigated the  
12 fact that he would be speaking strictly to how the code worked  
13 and how things would execute, and I do think that that is  
14 something that an average juror would not comprehend.

15 MS. HUANG: Your Honor, I think that's yet another new  
16 disclosure.

17 MR. BURNETT: There is just no way we could possibly  
18 prepare for that. They would need to actually list out the  
19 differences that they plan to opine on.

20 MR. KLEIN: Your Honor, it has always been clear he  
21 was going to testify and opine about how the smart contract  
22 operated and what was permissible without going to the intent  
23 of the designers or the intent of our client. He is navigating  
24 that road, and we have been very careful to follow the Court's  
25 prior order and make sure that the questions stick to that

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1 path, and that is the path he is going to be on throughout that  
2 testimony.

3 So the smart contract portion has clearly has been  
4 predisclosed, ruled on, and accepted within the parameters the  
5 Court gave on the March 25 hearing and following order.

6 The last part about Dr. Mordecai's testimony, we  
7 always noticed that it could develop based on what happens at  
8 trial because we don't know what exhibits they are going to  
9 offer in advance. We got them a week ago. They switched them  
10 out constantly throughout their process, including the  
11 demonstrative, for Mr. Mordecai in particular.

12 They are welcome to get up and the end and say:  
13 Dr. Mordecai told you he wasn't looking at this, and we will  
14 say: That is not how it actually worked. That just goes to  
15 the argument at the end.

16 If they want time to call Dr. Mordecai or Jain as  
17 rebuttal experts, they can do that. They have noticed that.  
18 If they want to call those people back, they can do that  
19 tomorrow, as far as we are concerned. We are not going to  
20 object to that.

21 But this is really critical evidence, and we have  
22 already noticed it and the Court ruled it. How the smart  
23 contract operated is something Dr -- Mr. Sheridan has always  
24 been noticed to talk about. That's what he is going to talk  
25 about along the narrow pathway your Honor gave, which we were

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1 fine operating with it.

2 THE COURT: The issue is that -- I think there is  
3 problems on both sides. The problem from the government's  
4 perspective is that when we went through this exercise at  
5 length previously, when there was a disclosure that was as  
6 generic as how the code functioned, there could have been a  
7 request at that juncture for a further disclosure to explain  
8 what Mr. Sheridan was going to say in particular as his  
9 opinions on how the code operated or did not operate, which we  
10 didn't have.

11 There was a motion on *Daubert* grounds to preclude  
12 testimony which the Court entertained, but there didn't seem to  
13 be an issue as to whether what was in the disclosure, just as a  
14 technical matter under Rule 16, was sufficient and whether  
15 there should be a further disclosure if the testimony was going  
16 to be allowed. Because then we could have gotten all of this  
17 squared away months -- a month ago maybe. The last disclosure  
18 was January 12, so this could have gotten squared away before.

19 From your perspective, I think you do have an issue  
20 that the Rule 16 disclosures that were furnished do not meet  
21 the substance of the rule. It doesn't actually state the  
22 opinions that Mr. Sheridan is going to offer, which leaves the  
23 government in a quandary.

24 But Ms. Martabano, these three areas, which seem to be  
25 the crux of the issue here, you're saying that what are we

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1 talking about, like 15 minutes?

2 MS. MARTABANO: Yes, your Honor, I think that's right.

3 THE COURT: Why shouldn't we have Mr. Sheridan take  
4 the stand right now, and you can run through those questions,  
5 so at least the government knows what you are going to raise.

6 Because what I want to avoid is that you call Mr.  
7 Sheridan and it's sidebar after sidebar because it actually  
8 wasn't what's stated here. It was way outside of those  
9 parameters. That's what I think we are going to do. I want to  
10 make sure that there is not anything else that we need to do  
11 when Mr. Sheridan is here.

12 Second issue, is he going to be relying on  
13 Mr. Eisenberg's statements in any way, shape, or form?

14 MR. KLEIN: No, your Honor. This is -- the government  
15 didn't know what he was talking with Mr. Eisenberg about, but  
16 he can testify to that when he gets up there. He is not  
17 relying on the statements.

18 It was like two conversations. One was just  
19 introducing themselves. Second one had just a technical thing  
20 to help Mr. Eisenberg review the discovery. So this is not  
21 substantive. He is not basing any opinion on Mr. Eisenberg's  
22 statements to him. Ms. Martabano can elicit that testimony  
23 when he is up there. It's a nothing.

24 THE COURT: Ms. Huang, what are your reactions? My  
25 intent, my thinking right now, is to have Mr. Sheridan take the

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1 stand, Ms. Martabano can ask whatever questions she has, you  
2 can inquire as to Mr. Sheridan's qualifications, or if there  
3 are other issues that you just want to flesh out, and then we  
4 will run it back from the top when Mr. Sheridan testifies in  
5 front of the jury, absent some further issues.

6 Because at this point I think it's fair, if there is  
7 testimony that Ms. Martabano seeks to elicit that is outside of  
8 even this supplemental disclosure, then that will be precluded.

9 Ms. Huang, what's your reaction to that?

10 MS. HUANG: Just one second, your Honor.

11 MR. BURNETT: I think we are fine with that proposal,  
12 your Honor. I think we would ask that he cover not just the  
13 first three topics, but all four topics that they identified in  
14 the supplement, particularly --

15 THE COURT: I'm sorry. I missed the fourth one.

16 MR. BURNETT: Particularly because that one doesn't  
17 even have an explanation of what his basis is for that. There  
18 are like some other subsidiary foundational issues that we will  
19 want to raise after he testifies; for instance, this like  
20 whiskeyfries link he talks about.

21 THE COURT: Those are just the topics, and then there  
22 are some exhibit issues.

23 MR. BURNETT: Right. Although to the extent that his  
24 basis for testifying on the topic is the exhibit, then I think  
25 knocking out the exhibit would likely knock out the topic.

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1 THE COURT: Now we go back to what we explored with  
2 Mr. Jain, which is that, if he's relying on some code, even if  
3 it would not be admissible, maybe they can't put it into  
4 evidence. But if he says, I reviewed this code and based on my  
5 review of the code I came to these expert conclusions based on  
6 my experience and expertise, and then he explains to the jury  
7 certain aspects -- certain opinions, wouldn't that be proper  
8 under Rule 703?

9 MR. BURNETT: I think the issue, at least with respect  
10 to this main document we are focused on, it's not code. It's  
11 basically, there was like some people on Discord. We are  
12 talking about a place where you could find Mango data. It  
13 seems like he found it on Discord, clicked on it, and just like  
14 accepting it as true and correct Mango data; not like data as  
15 in code data, like data as in trading data, so this is like --  
16 it's not a code thing. It's just purely inauthentic and  
17 hearsay.

18 THE COURT: Let's figure that out.

19 Anything else other than the whiskeyfries document?

20 MR. BURNETT: The whiskeyfries one is the main one.  
21 They are going to show a price chart, it seems, and talk about  
22 pricing. He was never noticed to talk about pricing, but we  
23 have also never received the underlying data, which is a  
24 prerequisite for admission under 1006. We also have no basis  
25 to challenge the hearsay or the authenticity of that data.

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1 THE COURT: This is the 1006 document that I guess  
2 Mr. Mordecai had -- you had disclosed. He just never used it.

3 MR. BURNETT: Sorry. This is different. This is the  
4 exhibit they planned to offer. I think it's DX-62. It's like  
5 a pricing chart about data -- it is theoretically from FTX and  
6 AscendEX because we never actually received the underlying data  
7 and that data, as I understand it, doesn't come from FTX and  
8 AscendEX. It comes from like other websites. But we have not  
9 gotten what those other materials are. They have not produced  
10 them to us.

11 MR. KLEIN: Your Honor, that last part is not  
12 accurate.

13 MR. BURNETT: It is true. You sent me a link to a  
14 website, but that website does not have the data, and I do not  
15 have the ability to like put code in to pull the same query you  
16 do.

17 MS. HUANG: We specifically requested the steps that  
18 they took to get that data, and they have not provided that.

19 THE COURT: I have the whiskeyfries document. I have  
20 DX-62.

21 MR. BURNETT: The last point, your Honor, is, this  
22 Court had previously ruled that the defense cannot do the line  
23 of examination about the audit because it's effectively a  
24 victim-blaming exercise. The defense now seems like they plan  
25 to do that. The only basis they have is the fact that they, on

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1 cross-examination, asked Brian Smith about the risk -- like the  
2 do-you-accept-the-risk page in Government Exhibit 1010, which  
3 refers to the code being unaudited. On redirect Mr. Davis  
4 simply showed not the audit, but the fact that there was a page  
5 on Mango Markets that said the code had been audited as of  
6 September 2022.

7 We don't think the defense can force the door open to  
8 a full victim-blaming exercise that this Court has already  
9 found was irrelevant, and this Court's ruling on the audit  
10 should stand and shouldn't be reopened.

11 THE COURT: I agree with that. I don't believe that  
12 the government opened the door. And the way that this happened  
13 was, the defense put on Exhibit 1010, I believe, that mentioned  
14 the word unaudited. All I recall the government did was to  
15 refer to a page that mentioned the audit without inquiring as  
16 to the circumstances of the audit and without making any  
17 representations whatsoever concerning the scope of the audit,  
18 what it did. I think it was really just to meet the  
19 defendant's argument on the word unaudited by showing that in a  
20 document that Mango Markets had, there was a reference to an  
21 audit. I don't think that that small point would open the door  
22 to now a new examination of what the audit was, which would  
23 then require the government to respond. And for the reasons we  
24 explored on *Daubert* motions, I think it would be prejudicial  
25 and with little probative value, if any, to bring that issue

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1 in.

2 Mr. Klein.

3 MR. KLEIN: They put in that exhibit, though, 1011,  
4 originally that references the audit. We didn't put that  
5 exhibit in. They put in an exhibit that references an audit.  
6 They put that into play. We didn't offer that 1011 in. That  
7 document that shows the audit -- and I guarantee you in close  
8 they are going to bring that up. They are going to bring that  
9 up in close, and that's an incomplete story. That's completely  
10 unfair to us.

11 If they put in 1011, that references an audit, we are  
12 going to show 1010, everyone knows it's in our close, and then  
13 they are going to get up and say, well, you can see what he's  
14 referring to as his audit here. That leaves us completely in  
15 the dark to explain to the jury what that audit was, and I  
16 think that's an important point.

17 If they are not going to raise that audit in the  
18 close, then maybe we are in a different place, but I believe a  
19 hundred percent they are going to raise that and say that's  
20 what it was referring to.

21 THE COURT: That's a fair question. The government  
22 may raise the audit, right. If Mr. Klein, or whoever is  
23 closing for the defense, is going to talk about this software  
24 being unaudited, then I imagine the government is going to  
25 raise the audit to show that was not true, right? You have not

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1 prepared your closing yet or finished preparing it.

2 MR. BURNETT: We have not prepared or finished on that  
3 point. I don't think we would be putting it in like  
4 affirmatively, and certainly there is nothing to talk about  
5 substantively in the audit, because the audit is not in  
6 evidence. If they say it's unaudited and we'd say, but in fact  
7 it was audited, I don't know, but if it's the difference  
8 between keeping this testimony out and letting it in, we would  
9 be happy to walk away from that argument on cross-examination.

10 We would have done our case differently had we known  
11 that like just putting in the user manual, which says edit on  
12 one page of 180, would open the door to a full line of cross or  
13 line of examination on an expert that was already precluded.

14 MR. KLEIN: There is actually a link in that document  
15 to the audit, your Honor.

16 MR. BURNETT: But the audit is not in evidence.

17 MR. KLEIN: I want to be clear, on that page there is  
18 a link to the actual audit.

19 THE COURT: What is Mr. Sheridan going to say about  
20 the audit?

21 MS. MARTABANO: He is really just going to testify  
22 that it doesn't mean like a full financial audit, and I think  
23 it's the average juror who doesn't spend their time in crypto  
24 or in code may not realize what the significance is of a code  
25 audit.

O4FMEIS1

1           You may have fixed the code, and that may mean that  
2           your code functions exactly as you intend it to and that's  
3           fine. But we would just want to clarify, it doesn't mean that  
4           there has been some sort of SEC equivalent audit. We are not  
5           really even planning to get into the weeds on the audit; just  
6           more, they reference an audit, they say that it is audited  
7           here, but what does that audit actually cover? It covers the  
8           code. I think we would say, could you tell us categories of  
9           things that it wouldn't cover. Because, obviously, the  
10          riskiness of the platform --

11           THE COURT: That it didn't cover. You said wouldn't.

12           MS. MARTABANO: That it didn't. I was the trying to  
13           be more general to stay away from the specific things within  
14           that audit, but I'm happy to ask specifically what didn't it  
15           cover. Based on the Court's prior ruling, I was trying to take  
16           away from that.

17           THE COURT: Let's have Mr. Sheridan take the stand and  
18           let's address these four points. To the extent the government  
19           has inquiry about these two exhibits, let's talk about those,  
20           and then let me think a little bit about this audit issue.

21           MR. HUANG: Your Honor, on Exhibits 63 and 64, we also  
22           had issues with those. Those appear to be vote tallies from  
23           the various Mango DAO votes. The defendant hasn't provided any  
24           foundation for authenticating those documents.

25           THE COURT: Why are those relevant at all?

O4FMEIS1

1 MS. MARTABANO: I think with Exhibit 64, we would just  
2 use it to refresh his recollection as to the specific time of  
3 the two proposals. We don't intend to offer it.

4 THE COURT: 63 and 64 are not coming in evidence.

5 MR. KLEIN: Correct.

6 THE COURT: Then we are left with 62, whiskeyfries,  
7 and we will pick up the audit. We have these four issues. So  
8 let's do it. Because we are burning jury time.

9 MR. KLEIN: Your Honor, before we start today, there  
10 was one or two other things we wanted to discuss. One is very  
11 quick, and I just wanted to flag that.

12 THE COURT: Let's do this, because this is going to  
13 raise some other issues.

14 Let's get Mr. Sheridan outside of the presence of the  
15 jury.

16 MR. KLEIN: Your Honor, can I raise one before we put  
17 Mr. Sheridan on? Sorry. It's really quick.

18 THE COURT: OK.

19 MR. KLEIN: We just wanted to briefly reopen the Rule  
20 29 for like 30 seconds. There are two little points that we  
21 wanted to make clear. It will take 30 seconds for me to say  
22 them on the Rule 29.

23 THE COURT: It looks like we have 30 seconds while we  
24 get Mr. Sheridan.

25 MR. KLEIN: In reopening the Rule 29, we wanted to say

O4FMEIS1

1 that there is no evidence of an interstate wire to meet the  
2 wire fraud element there.

3 And then as to the attempt for Count Two, we also  
4 think that would fail for the reasons we discussed for the  
5 other elements for Count Two, and that's it.

6 THE COURT: Understood. The Court will reserve  
7 decision under Rule 29(b).

8 (Continued on next page)

O4FCeis2

Sheridan - Direct

1 JEREMY SHERIDAN,

2 called as a witness by the Defendant,

3 having been duly sworn, testified as follows:

4 DIRECT EXAMINATION

5 BY MS. MARTABANO:

6 Q. Mr. Sheridan, can you tell us about your experience in  
7 particular as it relates to your abilities to read computer  
8 code and understand it?

9 A. My experience is based on my training and certifications  
10 in -- as an information security officer and as a certified  
11 security manager through Carnegie Mellon University, and the  
12 information systems and control association, as well as my  
13 experience within criminal investigations as a Secret Service  
14 agent.

15 Q. And you have the ability to just read computer code from  
16 GitHub?

17 A. I have the ability to read it, yes.

18 Q. You don't write computer code?

19 A. I do not write computer code, I'm not a coder, I'm not a  
20 software developer. Depending on the code in question -- there  
21 are obviously a large number of different computer codes.  
22 Depending on the code in question, I can read it and have a  
23 sense of its intended function. I cannot audit, I cannot write  
24 it, I cannot conduct security and bug identification on it.

25 Q. And you worked with a team at FTI while you were preparing

O4FCeis2

Sheridan - Direct

1 for your testimony?

2 A. Yes, ma'am.

3 Q. And do they have the ability to read and understand  
4 computer code?

5 MR. BURNETT: Objection.

6 THE COURT: It's overruled.

7 A. Yes, ma'am.

8 Q. And did you work with them in understanding the Mango  
9 Markets computer code?

10 MR. BURNETT: Objection.

11 THE COURT: It's overruled.

12 A. Yes, ma'am.

13 THE COURT: What's the nature of the objection?

14 MR. BURNETT: If he's relying on what someone at FTI  
15 told him about what code said or did, that's hearsay. The  
16 person from FTI should testify, not him.

17 THE COURT: Understood. I'll overrule that.

18 Continue.

19 Q. With respect to the Mango Markets code, did you review it  
20 to see whether the commands in the code matched up with the  
21 Mango Markets documentation in this case?

22 A. I reviewed it in conjunction with my team.

23 Q. And do you have the ability to explain to the jury how  
24 those two things are connected so the language of the Mango  
25 Markets documentation, for example, GX 1011, which I believe

O4FCeis2

Sheridan - Direct

1 you've seen in this case, and the code that is deposited at the  
2 Mango Markets version 3 repository on GitHub?

3 A. I'm sorry. The question is, can I relate that exhibit --

4 Q. Can you sort of translate the computer code to say, yes,  
5 this is what it says or, no, this isn't what it says in terms  
6 of how commands are called, how the contract is set up, how the  
7 borrows and collateral work as compared to -- obviously there  
8 are verbal representations in GX 1011, but are you able to read  
9 the code and say, yep, the code comports with that, yes, the  
10 code comports with that?

11 A. I'm able to read the code for its intent in terms of  
12 specific code functions and detailed code execution, that I  
13 relied on the team for.

14 Q. When you say "intent," what do you mean by that?

15 A. The general description of the code as written code base  
16 and what it relates to in terms of its function.

17 Q. So not the intent of the programmer, but in fact what a  
18 line of code is meant to do?

19 A. From a function sense, yes.

20 THE COURT: Can you walk me through the distinction  
21 that you're drawing. Take any example you want. Where did the  
22 line between what you can do stop and then what you have to  
23 rely on your team for?

24 THE WITNESS: So the way code is written, there are  
25 certain calls within the code that I can identify if it's

O4FCeis2

Sheridan - Direct

1 calling a user or a bid or an ask, a specific reference to a  
2 function, but in terms of specific lines of code that are  
3 syntax or require specific character input, that will result in  
4 an error because it's not entered correctly and code that is  
5 more data centric related to the nuance of writing requirements  
6 as opposed to reading requirements of the code. That is what I  
7 relied on my team for.

8 THE COURT: So give me the back and forth between you  
9 and your team when this arose during your analysis.

10 THE WITNESS: So there were questions surrounding  
11 borrows versus withdrawals. We went into the code to see if we  
12 could find areas within the code related to specific amounts of  
13 a settlement or an area of code that identified whether a  
14 transaction was a borrow or a withdrawal. And so, we could see  
15 within the code -- I could see within the code settlement  
16 functions, borrow functions, withdrawal functions, but the  
17 specificity of what that borrow did in terms of amount or how  
18 to write, where to point that code specifically within the  
19 smart contract and to the blockchain, those were beyond my  
20 capabilities. So the team would have to tell me, yeah, this  
21 doesn't call for a specific amount of this, this doesn't  
22 identify a specific amount or this code base doesn't -- this  
23 points to a certain location within the smart contract or  
24 towards the Solana blockchain. There's specific terminology  
25 within Mango Markets, smart contracts, and the Solana

O4FCeis2

Sheridan - Direct

1 blockchain that I don't know because it is specific to those  
2 individual protocols and they have a deeper knowledge of that  
3 level of code than I do.

4 THE COURT: And then when they gave you the answers to  
5 whatever questions you had, what would you do with those  
6 answers? Meaning, you asked those questions, they fill in the  
7 gaps, and then what do you do?

8 THE WITNESS: I would review the answers related to  
9 the Mango Markets documentation. What I am more familiar with,  
10 which is the blockchain explorers to see blockchain  
11 transactions from individual wallet address, and plain language  
12 text in terms of date, transaction time, amount, and ensure  
13 that those two aligned.

14 THE COURT: Okay. Ms. Martabano, you may proceed.

15 MS. MARTABANO: Yes, your Honor.

16 Does your Honor want me to cover -- I believe the  
17 topics that are not in dispute, like basic blockchain  
18 background and Solana background?

19 THE COURT: Let's go through these four categories  
20 now.

21 MS. MARTABANO: Okay.

22 BY MS. MARTABANO:

23 Q. How can you access the Mango Markets smart contracts?

24 A. It's publicly available on GitHub.

25 Q. And for a user who's seeking to interact with or transact

O4FCeis2

Sheridan - Direct

1 with Mango Markets, what ways are there for them to access the  
2 blockchain and the protocol?

3 A. There's two primary ways. One is through the Mango Markets  
4 user interface, and there are more technical ways to approach  
5 it through user-inputted code and API access.

6 Q. What is a user interface?

7 A. It's a graphical interface. Typically, a website is common  
8 terminology.

9 MS. MARTABANO: Your Honor, I'm going to skip forward  
10 to the specific defendant's trades, if that's okay. If you'd  
11 like me to go back to some of the more general topics that I  
12 don't think are in dispute, I'm happy to.

13 THE COURT: Let's keep it moving.

14 MS. MARTABANO: Okay.

15 Q. When you think about GX 1011, which is the document --

16 MS. MARTABANO: Mr. Smith, if you could bring that up  
17 so that the witness could see it.

18 We've talked about parts of that document that include  
19 the risk calculator. This is just going to be summary. If you  
20 want more detail, just let me know.

21 Q. The risk calculator, how liquidations work, how the  
22 insurance fund works, and how the socialized loss works and a  
23 settled P&L works, if I were to walk you through each of those,  
24 does the risk calculator work as it's described?

25 MS. MARTABANO: It's page 100, Mr. Smith, in the

O4FCeis2

Sheridan - Direct

1 document.

2 MR. BURNETT: Objection. Foundation.

3 THE COURT: Mr. Sheridan, did you review this document  
4 in preparing for your testimony?

5 THE WITNESS: Yes, sir.

6 THE COURT: What did you do?

7 THE WITNESS: I read the document and compared it to  
8 our findings on our blockchain analysis, used as it relates to  
9 the risk calculator. We experimented with the risk calculator  
10 with the inputs and trading activities that occurred in this  
11 case as executed by Mr. Eisenberg, we input those exact data  
12 points into the risk calculator.

13 THE COURT: Ms. Martabano, you may proceed.

14 Q. And this document describes it as the -- with the risk  
15 calculator, you can estimate your health ratio by simulating  
16 changes to an accounts, token deposits, borrows, prepositions,  
17 and pricing can be useful to help traders develop strategies  
18 based on their project of market movements, which may be  
19 simple, such as changing the price of a token or, more complex,  
20 such as developing a delta neutral strategy.

21 In your experience with the risk calculator, did it  
22 enable you to do that?

23 A. I just want to read the paragraph to ensure -- this is what  
24 you just read?

25 Q. Yes.

O4FCeis2

Sheridan - Direct

1 A. Sorry. So, the second sentence, we didn't develop  
2 strategies, but we simulated changes to the account token,  
3 deposits, borrows, prepositions, and pricing.

4 Q. Did the risk calculator function as described in this  
5 document when you used it, even if you didn't use it to develop  
6 trade strategies, does it function as described in the  
7 document?

8 A. Yes, ma'am.

9 Q. You mentioned that you put in Mr. Eisenberg's exact  
10 parameters. Did you receive any warnings or any notifications  
11 as to the outcome of what the trade might do to the protocol?

12 MR. BURNETT: Objection. Relevance.

13 THE COURT: You can answer.

14 A. We did not.

15 Q. Moving on to the liquidations page, which is page 110 in  
16 the document. Mr. Sheridan, please read this to yourself. I'm  
17 going to walk you through what some of the terms in here mean,  
18 you'll see some of the terms are in gray and look like they're  
19 sort of in very old-school computer font. I'd like to walk you  
20 through what you understand those terms to mean.

21 A. Yes, ma'am.

22 Q. Under the second heading, it says, "liquidations." It  
23 says: "Every Mango account must have a maint\_health above  
24 zero." What does "Mango account" mean in that line?

25 A. A Mango account is an individual deposit of cryptocurrency

O4FCeis2

Sheridan - Direct

1 that users have assigned to them to be able to conduct trading  
2 activities on the Mango platform.

3 Q. What kind of information is associated with Mango accounts  
4 on Mango Markets?

5 A. Mango accounts associated -- it's the account identifier,  
6 which is a cryptographic hash, and the account balance, the  
7 assets and liabilities within the account.

8 Q. So the code doesn't ask for an individual's name?

9 A. No, ma'am.

10 Q. No location?

11 A. No, ma'am.

12 Q. Their intention about the trade that they're engaging in?

13 A. No, ma'am.

14 Q. Does it ask them about other accounts they might have on  
15 the platform, other wallets they might have on the platform to  
16 link them?

17 A. No, ma'am.

18 Q. So the only data covered there is the wallet that it's  
19 linked to and the account number that's generated by the  
20 protocol itself?

21 A. Can you repeat that question. Sorry.

22 Q. Correct me if I misunderstood you, but the only information  
23 is the wallet that was connected to create the account and then  
24 just the random crypto hash number generated that becomes the  
25 account identifier?

O4FCeis2

Sheridan - Direct

1 A. And what's contained in the account would be the other  
2 category.

3 Q. So if you deposit the amounts deposited in that wallet?

4 A. Or your liabilities, not just deposits, but positions,  
5 liabilities, all assets and liabilities related to that  
6 account.

7 Q. And it then says, every Mango account must have a  
8 maint\_health above zero. What is maint\_health?

9 A. That is maintenance health that is the collateral ratio  
10 that is required to continue trading activities on the  
11 protocol.

12 Q. It says, if it slips below zero, liquidators can start  
13 liquidating the account until the init\_health is above zero.  
14 What is that?

15 A. Initial health is the collateral ratio required to open the  
16 account.

17 Q. And is that different from the maintenance health?

18 A. Yes, ma'am.

19 Q. How?

20 A. It's a higher collateral ratio requirement. The initial  
21 health requirement is a 120 percent collateral ratio, the  
22 maintenance health is a 110 percent collateral ratio.

23 Q. If liquidation has started on your account, the only way to  
24 stop more liquidation is to actually bring yourself up not just  
25 at a maintenance level, but all the way to the initial health

O4FCeis2

Sheridan - Direct

1 level?

2 MR. BURNETT: Objection. Foundation.

3 THE COURT: I mean, foundation, leading.

4 MS. MARTABANO: Sorry, your Honor. I don't intend to  
5 be leading when the jury is here. I was just trying to move us  
6 through.

7 Q. Can you explain, if you start liquidating, how is it that  
8 you can stop liquidation?

9 MR. BURNETT: Objection. Foundation.

10 THE COURT: Well, we've got to move this forward.

11 MR. BURNETT: If the point was to help us understand  
12 what his code basis is and how he's comparing it, there's kind  
13 of no questions here that elicit that. We can wait until my  
14 cross, we can go straight to my cross and I can ask him about  
15 this stuff too. It's not helpful if he's just him reading the  
16 document.

17 THE COURT: Why don't you ask a few foundational  
18 questions.

19 MS. MARTABANO: Sure.

20 Q. Mr. Sheridan, what is your understanding of the Mango  
21 Markets protocol and these documents based on?

22 A. What is my understanding based on?

23 Q. Yes.

24 A. My training, experience, review of the documents provided  
25 in discovery from defense and the government, as well as

O4FCeis2

Sheridan - Direct

1 independent research on analysis of the trades in question.

2 Q. And did that include this particular document?

3 A. Yes, ma'am.

4 Q. And what about, did you review any computer code?

5 A. Yes, ma'am.

6 Q. And what's your basis for understanding what the terms --  
7 sort of the terms in the gray awkward writing, where does that  
8 come from?

9 A. The description that was provided through the Mango Markets  
10 user guide, as well as the analysis of the trades here, and  
11 review of the collateral assets and liabilities, and how  
12 liquidations occurred relative to maintenance health and  
13 initial health.

14 Q. If you could expand on your understanding of how  
15 liquidation works, what is that based on?

16 A. Liquidation is based on the maintenance health of an  
17 individual account and --

18 Q. Sorry to stop you. What is your understanding of the  
19 liquidation based on, anything additional to things we've  
20 already discussed?

21 A. Not additional to what we've already discussed.

22 Q. When you worked in the risk calculator, did it warn you  
23 that a liquidation would happen? Like when you were testing  
24 out the code in the risk calculator, did you have an  
25 experience -- tell us about your experience about the code and

O4FCeis2

Sheridan - Direct

1 how it worked and why that did or didn't impact your ability to  
2 understand what's going on on the protocol?

3 A. Is this question in relation to the risk calculator?

4 Q. Yes, but as it would bear on sort of any experience that  
5 you have interacting with the protocol. You mentioned the risk  
6 calculator, if there are other experiences with version 3 of  
7 the protocol.

8 A. So my experiences with version 3 are to go to the version 3  
9 user interface on Mango Markets, to observe the functionality  
10 of the user interface, and the different ways in which a user  
11 could interact with it, and also, as stated, utilize the risk  
12 calculator to see what outputs would be generated by different  
13 trading inputs. I did review the -- specifically the  
14 settlement functions that were called by Mr. Eisenberg and the  
15 code associated with those in order to help assist, if I could,  
16 on identifying some of the information we were trying to  
17 determine from that settlement function.

18 Q. And what did your review of those functions tell you?

19 A. When you say those functions --

20 Q. The settle functions, the withdrawal functions, the ones  
21 you were just mentioning, what did they allow you to conclude  
22 about Mr. Eisenberg's trades?

23 A. Well, speaking to the settlement function specifically, it  
24 helped inform us about the \$50 million withdrawal in terms of  
25 timing, how that may be considered within the P&L settlement

O4FCeis2

Sheridan - Cross

1 category, as well as what information was available through a  
2 code level analysis to see if we could find those pieces of  
3 information we were looking for.

4 MS. MARTABANO: Your Honor, avoid offer that as  
5 sufficient basis to give his basic computer background on what  
6 these terms mean and how they function. If you'd like me to  
7 inquire further, I'm happy to.

8 MR. BURNETT: May I inquire?

9 THE COURT: You may.

10 CROSS-EXAMINATION

11 BY MR. BURNETT:

12 Q. Good morning, Mr. Sheridan.

13 A. Good morning, sir.

14 Q. You talked about liquidations with Ms. Martabano a few  
15 minutes ago; right?

16 A. Yes.

17 Q. What specific code did you view about liquidations? You.

18 A. I did not review specific code on liquidations.

19 MR. BURNETT: The government moves to exclude all  
20 testimony about liquidations in the code from Mr. Sheridan.

21 THE COURT: Ms. Martabano.

22 MS. MARTABANO: Your Honor, we disclosed he would be  
23 working with the team, much like Dr. Mordecai and the Brattle  
24 Group. We do not have Dr. Mordecai and the Brattle Group's  
25 underlying work papers. He has been working hand in hand with

O4FCeis2

Sheridan - Cross

1 FTI, which was disclosed, and he has reviewed that data such  
2 that he feels sufficiently educated by them and by his work in  
3 the code.

4 MR. BURNETT: I could ask more if you need more.

5 THE COURT: So the issue is --

6 So you didn't review the code underlying the  
7 liquidation function; right?

8 THE WITNESS: I reviewed the liquidation transactions  
9 and the data of the transactions.

10 MR. BURNETT: I can jump in there, too.

11 THE COURT: Go for it.

12 BY MR. BURNETT:

13 Q. That's the Whiskey Fries document that you produced;  
14 correct?

15 A. Yes, sir.

16 Q. And your team at FTI, what they did was they went on  
17 Discord and found a Discord chat for Mango Markets; right?

18 A. Yes, sir.

19 Q. And they found a link in that Discord chat; right?

20 A. Yes, sir.

21 Q. And you clicked the link and downloaded some data from it;  
22 right?

23 A. That's how -- the link was to the data that we downloaded  
24 after inputting the wallets associated with Mr. Eisenberg, yes.

25 Q. Right. But you haven't talked to a single person at Mango

O4FCeis2

Sheridan - Cross

1 Markets about whether that data is like the real deal; right?

2 A. We did not interview Mango Markets.

3 Q. And you don't know if those are materials that are  
4 regularly kept in Mango Markets' course of business because you  
5 haven't talked to anyone at Mango Markets about it; correct?

6 A. So I just want to clarify. The materials, we pulled the  
7 materials. We used the link to go to their dataset.

8 Q. But you don't know if it's their dataset. You're assuming  
9 it's their dataset because it appeared on a Mango Markets  
10 Discord; correct?

11 A. Yes, sir.

12 MR. BURNETT: So I'd move to exclude any testimony  
13 based on that. There's no foundation for the data that he's  
14 relying on. It's either authentic or is satisfying any of the  
15 hearsay exceptions.

16 MS. MARTABANO: Your Honor, if I may inquire further.  
17 I feel like Mr. Burnett has misled the Court as far as what  
18 this download came from. We provided the government, last  
19 night at 5:15, documents relating to proof of who the  
20 individuals were, the fact that they were in the Discord as  
21 both admins and team members of Mango, which is the way things  
22 go in this space. One of them is literally the lead coder for  
23 Mango, Maximilian. And in these Discord chats we turned over,  
24 they reflect the fact that these individuals have been asked  
25 questions by users saying, I'm looking for my data from my

O4FCeis2

Sheridan - Cross

1 transactions, and team members of Mango say, you can get all of  
2 your download history at this link. You can check for your  
3 tax -- for downloading version 3 account data for tax/records,  
4 check out the same link. Is there a way to download  
5 transactions from V3 still. I found a link, but I got an  
6 error, offline for maintenance. And then a member, who's a  
7 team member and I believe an admin, two of the three are  
8 admins, provides the same link. So you have two admins and  
9 another team member -- two admins who are also team members and  
10 then another team member in Discord's official channel saying,  
11 when you need your data, this is where to get it from. They  
12 are consistent in it, the government knows that. We sent that  
13 to them yesterday. And Mr. Burnett is representing that FTI  
14 went on and, you know, did no due diligence, didn't check, had  
15 no basis to believe there was any kind of reliability in this  
16 data. These are Mango individuals representing that it is  
17 their data that their users can do for tax records, right. I  
18 mean, I just think that --

19 MR. BURNETT: Your Honor, the problem is not --

20 THE COURT: Hold on. Hold on.

21 So Mr. Burnett, your motion to exclude is as to what?

22 MR. BURNETT: It's as to the documents that were  
23 downloaded and as to the testimony that would be based on those  
24 documents, because Mr. Sheridan testified that his knowledge of  
25 liquidations doesn't come from the code, it comes from these

O4FCeis2

Sheridan - Cross

1 things that he's downloaded from the internet.

2 THE WITNESS: Your Honor, may I clarify one --

3 THE COURT: No.

4 So the liquidations, that's what this is specific to?

5 MR. BURNETT: Yes, it will move to settlement next,  
6 but liquidations for starters.

7 THE COURT: I'm going to exclude Mr. Sheridan's  
8 testimony as to liquidations, both for the substantive reasons  
9 that Mr. Burnett has identified, but also for procedural issue,  
10 which is that neither Mr. Sheridan's opinions, nor the bases  
11 for them, were previously disclosed. I don't believe that they  
12 were even disclosed in yesterday's supplemental disclosure,  
13 which is why we're running to this issue on the morning of  
14 testimony. That is a plain violation of Rule 16. For that  
15 reason, Mr. Sheridan's testimony will be excluded on that  
16 issue.

17 MS. MARTABANO: Your Honor, on the record, we  
18 disclosed a version of the chart that is exhibit 62 and the  
19 link to that data as required on March 25th. The government  
20 has had it since then. They did not raise it until this  
21 weekend. So we have not updated the disclosures, but they did  
22 have that document in the documents we provided as things our  
23 experts would be relying on. They chose not to challenge it  
24 until this weekend. The same is true as the bad debt  
25 repayments. Those were in our disclosures, as well.

O4FCeis2

Sheridan - Cross

1 THE COURT: Mr. Burnett, you want to respond to that.

2 MR. BURNETT: Two things. It was disclosed to us as  
3 part of materials that Mr. Sheridan looked at. It wasn't  
4 marked as an exhibit. Because it wasn't marked as an exhibit  
5 and it wasn't within the scope of what he previously disclosed  
6 he was going to testify about, we didn't think much of it. We  
7 thought, okay, you pulled some data from the internet and he  
8 looked at it, nothing really to see here. We didn't learn  
9 until last night and now this morning that he is actually  
10 planning to offer that exhibit into evidence and he's planning  
11 to opine on liquidations. We had the spreadsheet, but our  
12 scope of understanding with the import of and what they were  
13 going to try and do with it didn't crystalize until last night  
14 and now sitting here today.

15 THE COURT: It all comes back to these disclosures,  
16 which were woefully deficient. Even in yesterday's disclosure,  
17 there was another last-minute opportunity to specifically  
18 identify Mr. Sheridan's opinions and the bases for them, and  
19 even that disclosure does not address what Mr. Sheridan's  
20 opinions are going to be on this particular issue.

21 In addition, there are these other issues that  
22 Mr. Sheridan did not review the code relating to this function.  
23 Even if he did to answer specific nuance questions about the  
24 code, he would need to consult with his team at FTI because  
25 he's unable to do that. So it raises a host of issues, which

O4FCeis2

Sheridan - Redirect

1 is precisely why the rules contain this disclosure requirement,  
2 so that these issues can be addressed in connection with the  
3 Daubert motions that we spent a lot of time on.

4 So let's move on. What's the next issue,  
5 Ms. Martabano?

6 MS. MARTABANO: Yes, your Honor.

7 Turning to page 111 of the document, Mr. Smith.

8 REDIRECT EXAMINATION

9 BY MS. MARTABANO:

10 Q. Mr. Sheridan, what's your understanding of the insurance  
11 fund available on Mango Markets version 3?

12 A. The insurance fund is an amount of assets held in reserve  
13 by the DAO in order to pay for accounts that become liquidated,  
14 but there are not enough assets on the platform through the  
15 liquidation process to cover the total liabilities.

16 Q. And is the use of the insurance fund automatic after  
17 there's been a liquidation that has emptied an account of all  
18 of its collateral and other assets?

19 MR. BURNETT: Objection to foundation.

20 THE COURT: Can you ask a few additional questions to  
21 establish foundation.

22 MS. MARTABANO: Sure.

23 Q. What is your understanding of the insurance fund based on?

24 A. My understanding of the insurance fund is based on the  
25 Mango Markets documentation.

O4FCeis2

Sheridan - Redirect

1 Q. Which documentation specifically?

2 A. The user guide.

3 Q. And did it involve any review of Mango Markets' smart  
4 contracts in order to understand how the insurance fund would  
5 be implemented?

6 A. The insurance fund implementation is not a smart contract  
7 function. That is a determination of the DAO to use the  
8 insurance fund for those purposes. How the insurance fund is  
9 distributed would be within the smart contracts in terms of a  
10 functionality, but it's a DAO decision to use the insurance  
11 fund.

12 MR. BURNETT: Same objection regarding foundation.

13 THE COURT: It's overruled. You may proceed.

14 MS. MARTABANO: Thank you, your Honor.

15 Q. Here it says the insurance fund will pay off losses. Does  
16 that suggest that the DAO needs to be involved in insurance  
17 funds payouts?

18 A. No, ma'am.

19 Q. So when you said earlier the DAO was involved, what was  
20 your basis for that?

21 A. The DAO controls the overall treasury of which part the  
22 insurance fund is a part. So the insurance fund will pay that  
23 out, provided there's no objections from the DAO.

24 Q. Moving to the next page of the document, what is your  
25 understanding of socialized losses and what is it based upon?

O4FCeis2

Sheridan - Redirect

1 A. My understanding of socialized losses are that these are  
2 losses that will occur to Mango Markets' users if, in a  
3 liquidation event, the account cannot be brought back to its  
4 proper health balance and there are still outstanding  
5 liabilities on the account that are not covered by individual  
6 liquidators or the insurance fund. In that case, the  
7 socialized losses will occur across all other users to pay off  
8 the remaining liabilities of the account.

9 Q. Based on your review of the code and the documents in this  
10 case, when will the socialized losses kick in? Is it automatic  
11 or is it not?

12 A. Yes, that would be an automatic function of the smart  
13 contract.

14 Q. And you mentioned in your testimony that there was  
15 occasionally what -- it was when the liquidation was complete.  
16 Is there any way -- how does the liquidation happen, as you  
17 understand it, such that it's deemed complete?

18 A. The liquidation is complete when the account balance health  
19 becomes -- reaches the necessary threshold of the maintenance  
20 health.

21 Q. I see. So there may not be a complete liquidation of an  
22 account if somehow either funds are deposited or the  
23 maintenance health comes back up, then the liquidation would  
24 stop?

25 A. Yes, or there's no other assets left in the account.

O4FCeis2

Sheridan - Redirect

1 Q. I see. In that case, the maintenance health isn't coming  
2 back?

3 MR. BURNETT: Objection. Leading.

4 MS. MARTABANO: Happy to rephrase, your Honor.

5 THE COURT: Is this the level of inquiry that you --

6 MS. MARTABANO: Yes.

7 THE COURT: On this particular issue?

8 MS. MARTABANO: Yes, your Honor.

9 THE COURT: Let's move to the next one.

10 Q. Does the Mango Markets contract code ask people for their  
11 names?

12 A. No.

13 Q. Does it ask them for their jobs?

14 A. No.

15 Q. Does it ask them for their income?

16 A. No.

17 Q. Does it ask them what they're going to do with their money?

18 A. No.

19 Q. Does it ask them about any assets that aren't affiliated  
20 with their account?

21 A. No.

22 Q. Could a smart contract be programmed to ask that,  
23 technically?

24 A. Technically.

25 Q. Is that true for all of those questions I asked you --

O4FCeis2

Sheridan - Redirect

1 income, location, job?

2 A. A smart contract would ask for basically "if then"  
3 information. So it would ask for that information in a binary  
4 sense, yes.

5 MS. MARTABANO: At this point, your Honor, I'd like to  
6 get into some of the rebuttal of Dr. Mordecai, really having  
7 him explain what we think Dr. Mordecai's chart said so that we  
8 can understand it a little bit better and point out where there  
9 are pieces missing.

10 THE COURT: Okay.

11 MS. MARTABANO: If we could show GX 1302.

12 Q. Mr. Sheridan, do you recognize what's already been admitted  
13 as GX 1302?

14 A. Yes, ma'am.

15 Q. What do you recognize it to be?

16 A. This was a graph that was presented during the government's  
17 expert witness testimony.

18 Q. The title of this slide is, "Stylized Perpetual Futures  
19 Economics." What does the X axis say?

20 A. There are price points on the X axis.

21 Q. And for what perpetual?

22 A. This is for -- this is both long and short, according to  
23 the graph.

24 Q. And is it for Mango perpetual or another kind of perpetual,  
25 Bitcoin perpetual?

O4FCeis2

Sheridan - Redirect

1 A. I'm sorry. It's the Mango USDC perpetuals involved in this  
2 case.

3 Q. And based on your understanding of the documents in the  
4 case, what does "payoff" mean, if you know?

5 A. So, in the documents, "payoff" is used as it relates to  
6 referral accounts. It is generally not used in the context of  
7 perpetual positions.

8 MR. BURNETT: Objection. There's no -- it's not  
9 rebutting anything from Dr. Mordecai to say what "payoff" means  
10 in documents. Mr. Mordecai explained what "payoff" means.  
11 It's just ships passing in the night.

12 THE COURT: I think this is more in the way of just  
13 setting the stage, but for what?

14 MS. MARTABANO: Correct, your Honor.

15 THE COURT: What is this --

16 MS. MARTABANO: What's the crux of it?

17 THE COURT: Yes.

18 MS. MARTABANO: If I may lead a little bit for  
19 expediency purposes.

20 Q. This chart purports to show the long and the short, as you  
21 mentioned; is that correct?

22 A. Yes.

23 Q. And this just shows them perfectly mirroring each other --

24 THE COURT: Hold on. Hold on. Can't do it this way.

25 Mr. Sheridan, you've seen this graph before?

O4FCeis2

Sheridan - Recross

1 THE WITNESS: Yes, sir.

2 THE COURT: What's your testimony about this graph,  
3 what opinions are you prepared to offer about this graph?

4 THE WITNESS: My opinion is that as it relates to the  
5 short position, this indicates it would be a continued loss  
6 potentially, a non-ending loss event. Whereas, in reality, a  
7 short position, if there are no longer assets in the position  
8 on the negative axis as it goes from top-right to bottom-left  
9 would not continue forever. It will eventually, once the  
10 assets are depleted, stop, and this seems to indicate that  
11 these can continue forever.

12 THE COURT: You're not an economist; right?

13 THE WITNESS: No, sir.

14 THE COURT: What's your background that gives you the  
15 expertise to offer an opinion along those lines?

16 THE WITNESS: Background based on how the Mango  
17 Markets perpetuums work.

18 THE COURT: So purely a technical analysis?

19 THE WITNESS: Yes, sir.

20 THE COURT: You're not offering any opinion about  
21 economics or anything else?

22 THE WITNESS: No, sir.

23 THE COURT: Mr. Burnett, do you have any inquiry?

24 RECROSS EXAMINATION

25 BY MR. BURNETT:

O4FCeis2

Sheridan - Recross

1 Q. Where does that technical background come from? Did you  
2 review the code for the perpetuals? You.

3 A. I'm sorry?

4 Q. Did you personally review the code for how perpetuals work  
5 on Mango Markets?

6 A. I reviewed the code, parts of the code personally and in a  
7 team effort with other members of my team.

8 Q. Which part of the information you're relying on was you and  
9 which part came from your team telling you stuff?

10 A. I didn't make distinctions of "this part's you," "this  
11 part's me."

12 Q. I'm asking you to make that distinction.

13 A. I can't do that, sir, because we looked at code in various  
14 contexts as it relates to this context. We looked at it -- I  
15 looked at it individually and collectively, but I didn't parse  
16 out, I'm going to look at this piece by myself over the course  
17 of the several weeks we've been analyzing this. I don't have  
18 specific code sections or snippets that I analyzed  
19 independently versus --

20 Q. Fair to say there are important things about the code that  
21 you wouldn't have understood if someone from your team hadn't  
22 told you what they said?

23 A. There are levels of detail that I needed my team to tell me  
24 about, yes, sir.

25 MR. BURNETT: We move to exclude that testimony on the

O4FCeis2

Sheridan - Recross

1 ground that he cannot distinguish which is his knowledge and  
2 his expertise versus what someone at FTI is telling him and he  
3 is just regurgitating, which is hearsay, and also something  
4 that he's clearly not qualified to opine on.

5 THE COURT: The basis for the testimony can come in  
6 the form of a conversation with his team or another individual.  
7 That's under Rule 703. The question is whether then he's  
8 taking that base information and applying his expertise to then  
9 offer an opinion that is his opinion born of his own experience  
10 or review of the materials.

11 That's what I'm trying to figure out. I'm not even  
12 understanding from the testimony what the relevance is of any  
13 of what Mr. Sheridan is going to say. That's what I don't  
14 understand. I don't understand why this is becoming an issue  
15 where we've taken an hour of the jury's time to go into any of  
16 these issues, which do not seem to go to the heart of any of  
17 the issues before the jury. I mean, if the basic thing that  
18 Mr. Sheridan is going to testify about is simply reiterating  
19 and emphasizing the points that the defense has already made  
20 about what the aspects of this platform are or aren't, which is  
21 I think fairly within the prior disclosures, then great, but  
22 the things we're getting into now seem far afield of  
23 Mr. Sheridan's expertise and also not really relevant to  
24 anything. This is extremely problematic, especially coming in  
25 the way it is.

O4FCeis2

Sheridan - Recross

1 Have we covered everything that is within these topics  
2 or is there anything else, Mr. Burnett?

3 MS. MARTABANO: The only thing would be walking  
4 through Mr. Eisenberg's trades, which we believe is fairly  
5 disclosed, that he would be walking through the technical  
6 process of Mr. Eisenberg's trades, but the government takes  
7 issue with that.

8 THE COURT: And then as to the repayment of the bad  
9 debt, what does Mr. Sheridan need to get on the stand and say  
10 what the time of all these things are if the evidence is  
11 already in the record? What expertise is he adding to that?

12 MS. MARTABANO: He has the specific times and how  
13 close in time it is, and we think that obviously it's relevant  
14 that, within hours of this transaction happening, before  
15 there's been any outing or any discussion of Mr. Eisenberg as a  
16 person, he comes forward and says, I'm making a proposal to  
17 repay the DAO, and that includes obviously the fact that part  
18 of the point of that is to make users whole. We think that  
19 that specific timing is very important. We also think that the  
20 specific --

21 THE COURT: But is that in the record? That's what  
22 I'm trying to understand, because --

23 MS. MARTABANO: That exact time is not currently in  
24 the record. The government has argued, as I understand it,  
25 that Mr. Talkin has been handling it more, that a mere web

O4FCeis2

Sheridan - Recross

1 visit may not be sufficient to establish what someone did. And  
2 so --

3 THE COURT: But he doesn't have expertise on the  
4 historical facts of what occurred. This is precisely the issue  
5 that we addressed with Mr. Jain, and I excluded that testimony  
6 because he can't just put in this happened at this time, this  
7 happened at another time where it has no independent basis for  
8 admissibility. That has nothing to do with his expertise and  
9 it would be an end run around the hearsay rule. If you've got  
10 documents in the record that make clear that aren't being  
11 objected to, they're going to be in front of the jury, you're  
12 going to have the opportunity at closing to get into them.

13 Is that all on topic 1 that Mr. Sheridan is going to  
14 be getting into, just the timing of all this? If I'm missing  
15 something, let me know, but it seems like there's no expert  
16 opinion here.

17 MS. MARTABANO: On the timing issue, he and the team  
18 at FTI pulled code, as I understand it. But, correct me if I'm  
19 wrong, Mr. Sheridan, if I'm mischaracterizing it. Related to  
20 almost all of the proposals that were ever put forth on the DAO  
21 to pull data relating to who proposed it, what wallet was  
22 associated with it, what the name of the proposal was, what the  
23 time of the proposal was, whether it was accepted, how the vote  
24 went. So they pulled that independent data in order to be able  
25 to say this is the timeline of the proposals.

O4FCeis2

Sheridan - Recross

1 THE COURT: What else do we have in addition to the  
2 issues you've addressed within these four categories? There's  
3 the fourth bullet concerning GX 914 and 928. Those go to  
4 specific trades?

5 MS. MARTABANO: Yes, your Honor. It's really that  
6 these exhibits that the government put in, which are stale from  
7 December 15th. One of them is old and stale, one of them is  
8 more current and it's explaining what the meaning of these  
9 documents is.

10 MR. BURNETT: Objection.

11 THE COURT: You don't want the witness to be here  
12 while she's --

13 MR. BURNETT: I don't want her telling the witness  
14 what to say.

15 THE COURT: That's fair. We don't need to get into --  
16 let me take a step back.

17 Mr. Burnett, do you have any further inquiry for this  
18 witness?

19 MR. BURNETT: I have inquiry on this topic, on GX 914  
20 and I have inquiry on -- I think it was pretty clear from his  
21 description of what he can and can't do about the code, that he  
22 needed to rely on his team to tell him what the code was saying  
23 about the actual numbers on trades and what was being settled  
24 and what was being borrowed.

25 So to the extent they're going to walk through and

O4FCeis2

Sheridan - Recross

1 he's going to say Mr. Eisenberg settled this, borrowed this,  
2 settled this, borrowed that, I think we need to know and I  
3 would like to voir dire him on what his basis is for that  
4 because if he's just relaying facts that are supposedly coming  
5 from FTI, but he did not have the capability to do, that's not  
6 applying his expertise, it's just relaying the hearsay from  
7 someone at FTI who's not in front of the Court and who we don't  
8 have the opportunity to either cross examine or put materials  
9 in front of.

10 THE COURT: Mr. Martabano, subject to this issue, have  
11 we basically covered the waterfront within these four topics?

12 MS. MARTABANO: Yes, your Honor, with the documents,  
13 it would just be explaining the documents to the jury the two  
14 exhibits that the government put in, 914 and 932.

15 THE COURT: Mr. Burnett, you can proceed with your  
16 voir dire and then we'll take a little break and I'll think  
17 about this for a few minutes.

18 BY MR. BURNETT:

19 Q. Let's start with this, 914. You signed the notice that  
20 went out yesterday, correct, Mr. Sheridan?

21 A. Yes, sir.

22 Q. And that notice says you will testify that 914 and 928  
23 reflect data relating to Mr. Eisenberg's account on December  
24 15, 2022. That's the first part; right?

25 A. Again, are they being pulled up so --

04FCeis2

Sheridan - Recross

1 MR. BURNETT: Why don't we pull up 914.

2 Q. Do you see that? This is 914; correct?

3 A. Yes, sir.

4 Q. And to get the December 15th part, you're just reading the  
5 date that's under the account value; correct?

6 A. Yes, sir.

7 Q. Now I want to talk about the next part. You say that they  
8 do not reflect how Mr. Eisenberg's accounts would have looked  
9 at the times of the trades in GX 932. That's what you said  
10 your opinion is going to be?

11 A. Yes, sir.

12 Q. You did not review this account as of October 11, 2022;  
13 correct?

14 A. Our review of the account was based on inputting the  
15 information we received through the link previously discussed  
16 to see account transactions, and we did verify those  
17 liquidation events. My expertise is in blockchain tracing, so  
18 I verified those events through blockchain explorers and how  
19 the assets moved.

20 Q. I'm asking you a simple question. You didn't look at this  
21 screen as of October 11th yourself; correct?

22 A. I'm sorry. I misunderstood. I did not look at the screen  
23 on October 11th, no.

24 Q. So what's your basis for saying you knew how the screen  
25 would have looked on October 11th?

O4FCeis2

Sheridan - Recross

1 A. Because you can see how the accounts -- the transactions on  
2 October 11th using blockchain analytics and blockchain  
3 explorers to track and trace the funds that show fund movement,  
4 fund balances, and other activity on the blockchain.

5 Q. Did you specifically look at -- which things would have  
6 been different about those?

7 A. Different about?

8 Q. The screen, you said it would have been different. What  
9 would have been different about it?

10 A. It would have shown different borrows, withdrawals,  
11 balances, values.

12 Q. What would the numbers have looked like? What would they  
13 have been?

14 A. That would have been represented in the other exhibit.

15 Q. What other exhibit?

16 A. The one that shows October 11.

17 Q. What other exhibit that shows October 11?

18 A. The one from -- I don't know the exhibit number, sir.

19 Q. Give me a description. What are you talking about?

20 A. There is a screenshot of these accounts with a date from  
21 October 11th, if I recall.

22 MS. MARTABANO: It's 932.

23 Q. You can take a look, 932. This is a different page; right?

24 A. It is a different page, but it shows, in my opinion, a more  
25 accurate representation of the accounts because it is from the

O4FCeis2

Sheridan - Recross

1 date in question.

2 Q. How do you even know it's from the date in question?

3 A. The date is listed under the withdrawal column on the left.

4 Q. Isn't it true that the dates under that withdrawal column  
5 on the left list the date of the withdrawal, not the date the  
6 screenshot is taken? That's why they're all different times;  
7 right?

8 A. Yes, but that's --

9 Q. So you don't know when this screenshot was taken; right?

10 A. I don't know when the screenshot was taken.

11 Q. You're just asserting it was taken on October 11, but you  
12 have no idea?

13 A. I don't know when the screenshot was taken. My analysis,  
14 though, is based on not the date of the screenshot, but the  
15 date of the transactions that are listed.

16 Q. What other data did you rely on? Tell me specifically what  
17 you looked at to know what that screenshot, 914 looked like on  
18 October 11th.

19 A. We validated these transactions using blockchain analysis  
20 and explorers to --

21 Q. No buzzwords. Tell me what you actually looked at.

22 A. We went on the blockchain and looked at these  
23 transactions --

24 Q. You could see the borrows on the blockchain?

25 A. You could see transactions. They're not listed as borrows

04FCeis2

Sheridan - Recross

1 or withdrawals. You can see transactions.

2 Q. Exactly. You can't tell what's borrowed or what's just a  
3 borrow and what's a borrow and withdraw on the blockchain;  
4 correct?

5 A. So you can tell, there's two functions that are listed  
6 within blockchain explorers. It will list a borrow as a 1 or a  
7 0. So you can tell when a function is not a borrow by the 0,  
8 and you can tell when a function could be a borrow by the 1.

9 Q. And can you show me, what's the document that shows your  
10 analysis of what was borrows and what wasn't borrows as of  
11 October 11th?

12 A. I don't have that document as it relates to this  
13 screenshot.

14 Q. Were you even able to do this or was this something FTI  
15 folks told you?

16 A. I'm able to conduct blockchain analysis.

17 Q. I understand you're saying blockchain analysis, but what  
18 specifically did you look at to know what was borrowed and what  
19 wasn't borrowed that supports your opinion that 914 was not as  
20 it looked on October 11th?

21 A. I looked at all transactions related to these wallets  
22 through a blockchain analysis tool to see how the transactions  
23 were conducted in terms of the values, amounts, times, and  
24 other functions.

25 Q. Which tool?

O4FCeis2

Sheridan - Recross

1 A. Solscan, Solana FM, and XRAY.

2 Q. You know that all those records from Solscan and Solana FM  
3 are already in the record; right? Can you point me to any one  
4 that goes into this borrow, not borrow point you're making?  
5 You were sitting here through trial. You know they're in  
6 evidence.

7 A. Yes, sir. The challenge is there isn't a definitive --  
8 those logs are contained within Mango Markets' logs. I can  
9 show you, if you pull up DX 50 I believe is the exhibit.

10 Q. Actually, I have an easier way to get about this. You, in  
11 preparing to testify, looked at a number of articles that were  
12 about the attack; right?

13 A. Yes, sir.

14 Q. And some of those articles were published right after the  
15 attack happened; right?

16 A. Yes, sir.

17 Q. Some of them had the exact same screenshot that shows up in  
18 the 914 from just a day after it happened, don't they?

19 A. I don't remember. Can you show me 914.

20 MR. BURNETT: Why don't we pull up 914.

21 Q. You can see the borrows listed out here, you can see the  
22 account information at the top. Why don't we take a look at --

23 MR. BURNETT: If we can pull up side by side,  
24 Mr. Sears, that @Austerity\_Sucks article, thoughts on the  
25 \$110 million Mango Markets exploit. Sorry, we can stick with

O4FCeis2

Sheridan - Recross

1 this one. This one is fine. We'll look at the other one.

2 Q. This is what you looked at decoding Mango's  
3 vulnerabilities?

4 A. Yes, sir.

5 Q. That was published October 12, 2023?

6 A. Yes, sir. 2022.

7 Q. 2022, right. So the day after the attack, not even a day  
8 after the attack?

9 A. Yes, sir.

10 MR. BURNETT: Mr. Sears, can we scroll down the page  
11 here, couple pages.

12 Q. You can see a screenshot there of a borrow and withdrawal  
13 page?

14 A. Yes, sir.

15 Q. You can see the data all is exactly the same as the data  
16 that's on this December 15 chart; right?

17 A. I can crosswalk it.

18 Q. Go ahead. Take your time.

19 A. I have faith that -- I don't need to crosscheck you. If  
20 you're telling me the data is the same, then I'm willing to  
21 accept that. I see the first USDC transaction is the same  
22 amount. I don't have reason to doubt you, sir.

23 Q. Let's take a look at the other one, the @Austerity\_Sucks  
24 article.

25 THE COURT: Let's stop this right now.

O4FCeis2

1 Is there anything else, Ms. Martabano, or is that what  
2 is in this supplemental disclosure?

3 MS. MARTABANO: That's it, your Honor, other than what  
4 we discussed about the proposals at the end, the repayment  
5 proposals.

6 THE COURT: And as to the repayment proposals, as I  
7 understand it -- well, let's address this in a second.

8 Mr. Sheridan, thank you very much. You can leave the  
9 courtroom.

10 (Witness excused)

11 MR. BURNETT: Formally, just to make the record, we  
12 move to exclude that last testimony for lack of foundation.  
13 He's just repeating buzzword blockchain analysis without any  
14 explanation. This is a new opinion. We would have more time  
15 to actually pull through the data he looked at if it was  
16 something that we knew about ahead of time, but clearly, he's  
17 just saying stuff.

18 THE COURT: In the disclosures, did you have the basis  
19 for Mr. Sheridan's opinion that he offered, that the screenshot  
20 would not have accurately reflected the trades as they would  
21 have been reflected on October 11th, and if you had just done  
22 the tracing analysis, you could figure that out?

23 MR. BURNETT: The only disclosure we've ever received  
24 is the one bullet point we got last night in this from the  
25 Court, and even that one doesn't have the explanation for basis

O4FCeis2

1 in it.

2 MS. MARTABANO: Your Honor, we only received these  
3 when the government proffered them, so that's why he hasn't  
4 done additional analysis on them. They came into evidence last  
5 week. We questioned them when they came into evidence as  
6 unreliable and backdated. It was not until just now that  
7 Mr. Burnett offered an exhibit that has been labeled, but  
8 sought to be excluded and not offered by the government, which  
9 is in itself hearsay. He's showing a photo that's a screenshot  
10 in an article that is not in evidence to justify that his  
11 postdated exhibit is in fact current and was current at the  
12 time. So there isn't evidence that actually establishes that  
13 this particular document was current or matches what it would  
14 have looked like at the time. And showing something that is  
15 not in evidence that he has not previously proffered to us as a  
16 basis for 914, their case is closed to now say, well, no, we do  
17 have a basis for it when we got there, 914, a week ago. There  
18 may have been an earlier version, but these were things that we  
19 didn't even have at the time of the disclosure.

20 MR. BURNETT: Few things. We've had that exhibit  
21 marked all the way out to the exhibit deadline. Second, if  
22 they want to make the point that the exhibit in 914 is dated  
23 December 15th, that's perfectly fine and they're able to do  
24 that. The problem is saying that it wouldn't have looked this  
25 way back on October 11th.

O4FCeis2

1           And that is where the issue lies, because all we have  
2 here, we have no actual basis from this expert or supposed  
3 expert in this about how he knew what it looked like back then,  
4 other than him saying the word "blockchain explorer" over and  
5 over again. We actually need to see the blockchain data that  
6 he is relying on to understand what he's even talking about  
7 here. This is not an adequate foundation. He's just making  
8 stuff up.

9           MR. KLEIN: Your Honor, he's not making stuff up.  
10 That's ridiculous.

11           THE COURT: The issue is: Do you have any authority  
12 that says that this kind of undisclosed opinion, because it's  
13 in rebuttal of the government's witnesses, for any other  
14 reason, would be permissible? Because if Mr. Sheridan were  
15 going to testify that at the time, October 11th, using tracing  
16 tools, his account would have looked differently than what was  
17 reflected in the public domain, then that would seem to be  
18 something that you would have to disclose – here's what  
19 Mr. Sheridan is going to say and here's what he looked at, and  
20 the government could go look at it. Maybe it's true he's  
21 saying all these things and he's right about it, but this is  
22 the day before testimony.

23           Ms. Martabano, you referred to the fact the government  
24 has rested its case. I think that's the problem, because  
25 they've rested their case. If you had made it right when 914

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1 was used or back at the exhibit deadline when it was disclosed,  
2 if there was some disclosure that Mr. Sheridan was going to  
3 provide this type of testimony and give the basis for it, then  
4 the government could look at it. That's the issue.

5 MR. KLEIN: Your Honor, they didn't disclose who was  
6 going to put in these exhibits until the day before.

7 THE COURT: It doesn't matter who's going to put the  
8 exhibits in. What matters is you believe there was an exhibit  
9 that was proposed by the government that was inaccurate and you  
10 wanted to make a point about that. So once you know you want  
11 to make a point about that, you can go through the steps that  
12 we've gone through.

13 As I said, the Court has been very lenient with  
14 allowing these supplemental disclosures, but it's the morning  
15 of testimony, the jury has been sitting there for over an hour  
16 and a half, and we are right now understanding what the  
17 testimony is through an elaborate voir dire. It may be  
18 unprecedented that I'm even entertaining that kind of inquiry  
19 at this stage rather than saying this is all out. That's what  
20 I'm trying to understand, is there any authority that you can  
21 cite to the Court that would suggest that this is permissible  
22 under Rule 16?

23 MR. KLEIN: Yes, your Honor. We put it at the end of  
24 our letter.

25 THE COURT: I've got your letter here. This is

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1 *Rosario?*

2 MR. KLEIN: Yes. Sometimes, of course, this does  
3 happen, the defense is put in a position that is difficult, and  
4 we do appreciate the Court's accommodations along the way, but  
5 there's a *Rosario* case in *Washington v. Schriver*. Basically,  
6 sometimes this happens and the defense should be given a little  
7 more wiggle room because these things go to the core of what's  
8 happening here, and reasonable doubt.

9 So the government has put in this exhibit --  
10 Mr. Sheridan was very clear on his basis. Blockchain  
11 analytics, which we would get into in his direct, is the study  
12 of how blockchain works. It's just what DeCapua did. It's the  
13 exact same thing, it's the same kind of thing. He was looking  
14 at the transactions. He said himself he went back and looked  
15 at them to see how they were coded and what they were, zeros  
16 and ones, and he would explain that to the jury, and this is  
17 inaccurate.

18 And so, that is an important piece of testimony that  
19 completely undermines their theory. It goes to the heart of  
20 their theory. They opened with this as a \$110 million borrow.  
21 They put up an exhibit that claims to show that from December,  
22 and then he actually looked at the analytics which is in his  
23 expertise, goes in and says, hey, that's not how it was coded.  
24 We said all along he was going to talk about how these trades  
25 are coded. Now he's just putting it to an exhibit. We always

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1 disclosed he was going to talk about what his trades look like,  
2 whether they are enabled and how they happened. That's been  
3 disclosed since day one. All he's doing is talking about  
4 within the frame of this exhibit. Mr. Burnett is free to cross  
5 examine him like he did, and they're also free to call a  
6 rebuttal expert. We're fine if they want to call back  
7 Dr. Mordecai or Mr. Jain to refute this. There isn't  
8 refutation, though, and they're trying to get it in through  
9 this.

10 He wasn't using just buzzwords. To be clear, he  
11 literally said, I went in to look at the code, I examined the  
12 analytics for each of these transactions, and what I saw was  
13 zeroes and ones. That's very specific, your Honor, and that's  
14 something a jury could not do, period. That's the exact kind  
15 of technical expertise that an expert is needed for, and he  
16 should be permitted to talk about this because they're going to  
17 close and say these were all borrows, when they weren't, and  
18 that goes to the heart of this matter. And Mr. Eisenberg  
19 deserves his chance to have that be heard in front of this  
20 jury.

21 We wish things would have played out a little  
22 differently. We're in the position we are in, they put up  
23 their witnesses, we're reviewing their exhibits as they come  
24 in, we're working with our expert, and now he's ready to  
25 testify about something. This is totally fair game.

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MR. BURNETT: Your Honor, if I may just respond.

It's been clear since we filed the complaint in this case that the government's theory of the case has been that Mr. Eisenberg borrowed \$110 million worth of cryptocurrency, it was in the complaint, it was in the indictment, it's been in every letter we've written to the Court, every motion we've written to the Court, it's been crystal clear all along. If the defense was going to argue that these were not in fact borrows and to provide some code basis or blockchain basis for that, they've known all along that that's something they needed to and should have done and should have disclosed. The argument that it's been the heart of the case is exactly why it should have been disclosed earlier on.

The fundamental problem we have here is other than Mr. Sheridan getting on the stand and saying, well, it's in a blockchain explorer somewhere, we don't even have the underlying documents that he is relying on. I can't cross examine him on what data he looked at to do those things because they never even produced it. All we have is this one sentence now and Mr. Sheridan's assertion on the stand that if you look, you'll find it. That's not the way expert disclosure is supposed to work, it's deeply unfair, and we can't go get a new expert in the code right now at this stage of trial. This is something they knew all along. If it's an argument they wanted to make, they needed to notice it. Fairness is just as

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1 important for government as it is for the defendant in criminal  
2 cases, and it's not fair for the defense to effectively sandbag  
3 something that if they knew was going to be a heart of their  
4 case earlier on, they should have given notice on when they had  
5 multiple opportunities to do so before trial.

6 MR. KLEIN: Your Honor, if you don't let him talk  
7 about 914, he still can talk about what he did when he reviewed  
8 the code and were these transactions enabled and what they  
9 looked like. That's always been the heart of his testimony.  
10 They've been on notice of that from day one. To say he can't  
11 get up and say, hey, Mr. Eisenberg did some transactions and I  
12 looked at the blockchain, this is what they looked like, this  
13 is what the code permitted, this is how they were coded -  
14 that's been very clear. We've always said he's going to talk  
15 about what was enabled and what was not enabled and how the  
16 smart contract performed. This goes to how a smart contract  
17 performs. This goes to what was enabled, what was permissible.  
18 And so, this has always been -- if you say he can't talk about  
19 the 914, then he'll just talk about it in general. The  
20 testimony still should come in.

21 THE COURT: In the prior disclosures, did Mr. Sheridan  
22 indicate that he could testify about Mr. Eisenberg's trades?

23 MR. KLEIN: Yes, and your Honor ruled on March 25th  
24 that he could talk about them.

25 THE COURT: Point me to where the disclosure, because

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1 I'm looking at the January 12th, 2024 disclosure, but I also  
2 have the October 30th disclosure.

3 MR. KLEIN: Sorry. He will testify that Mango  
4 Markets -- there's a couple components to this, your Honor.  
5 So, one part was we disclosed that he would testify that Mango  
6 Markets was designed to enable conduct and others and prevent  
7 it. So that talks about how it worked, what was enabled and  
8 what could be prevented. Then we also talked about -- you  
9 specifically said, at the March 14th hearing, he could testify  
10 concerning the market mechanics and whether or not what  
11 Mr. Eisenberg did was consistent with the code, and whether  
12 modifications to the code were undertaken or not. He was going  
13 to talk about what was enabled, what he did was consistent with  
14 the code, and just explain what it looked like.

15 THE COURT: That's true, but on the particular  
16 question of whether there were borrows as opposed to  
17 withdrawals, that is not something that was within that scope  
18 of what you just said.

19 MR. KLEIN: But that's how the code is enabled. The  
20 code is set up a certain way. All he's saying is, this is what  
21 the code permitted you to do and this is what it looked like.  
22 When I look at it, I see this transaction -- by the way, the  
23 blockchain is public, your Honor. We can't just print out a  
24 giant blockchain and bring it in and dump it on them. They  
25 have the access to the public ledge the same way we do. And

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1 so, that's not something -- to disclose the blockchain -- they  
2 didn't disclose the blockchains for DeCapua's testimony when he  
3 did all his tracing.

4 MR. BURNETT: We actually did. We printed out every  
5 single exhibit that he relied on.

6 (Continued on next page)

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1 MR. KLEIN: He printed out the exhibits, but you  
2 didn't say the Blockchain is a massive Blockchain. They didn't  
3 give us the entire Blockchain. So he's relying on a publicly  
4 available Blockchain that is disclosed as a basis, and he's  
5 basically doing what we understood he was permitted to do,  
6 based on the March 25 hearing with your Honor.

7 I don't know what we would have done differently  
8 because we thought he could always talk about the smart  
9 contracts, how it worked, and Mr. Eisenberg's trades, how they  
10 performed it through the smart contract.

11 THE COURT: Understood. We are going to take 15  
12 minutes. We are going to come back. I'll tell you what we are  
13 going to do, and then we will proceed with the testimony.

14 (Recess)

15 THE COURT: Ms. Martabano, as to the first bullet  
16 concerning the repayments, my understanding is that Mr.  
17 Sheridan is going to do a little more than just recount the  
18 chronology of what occurred. Is that correct?

19 MS. MARTABANO: Yes. Based on data that they pulled  
20 from the proposals from the Blockchain to see when exactly  
21 things were done and by whom. He's not going to get into by  
22 whom.

23 THE COURT: He is not going to say by whom. He is not  
24 going to say what people thought, what they were doing, what  
25 they were imagining.

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1 MS. MARTABANO: No.

2 THE COURT: That is a proper subject of his testimony  
3 to that limited extent.

4 As to the contracts and the code and what it was doing  
5 and not doing, here is the issue, is that if Mr. Sheridan is  
6 relying on other people and they are the ones who did the work  
7 and he is merely recounting their opinions, then that is  
8 inadmissible under, I think, clear law in this district in  
9 circuit courts around the country everywhere.

10 The only testimony that would be admissible as his  
11 opinion would be if he did the work, told people what to do,  
12 added his experience, had a basis for his own opinion, if he  
13 could do the work himself, if given enough time. Those are the  
14 types of ways in which an expert can rely on the work of a  
15 team, and you can expect that on cross-examination the  
16 government is going to hit that issue hard.

17 So this is a larger issue than just what was in the  
18 supplemental disclosure, because if it turns out that Mr.  
19 Sheridan is sitting here but actually it's the team at FTI that  
20 did all the work and figured out what the code meant and that's  
21 really all that Mr. Sheridan is reciting, and he is being put  
22 on just because he has law enforcement background, that's going  
23 to be a big problem for you because I could exclude his entire  
24 opinion at the end of the day. You should be mindful of that  
25 as you're doing your direct to make sure that you are eliciting

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1 a foundation for every opinion that he's putting in.

2 With that, I am going to limit you to what's stated in  
3 this supplemental disclosure to the extent you're addressing  
4 all these issues.

5 As to the response to Dr. Mordecai, my understanding  
6 is that Mr. Sheridan is just offering, again, an opinion about  
7 how the code works. He's only referencing Dr. Mordecai's  
8 exhibit to just give the context of why he's opining what he's  
9 opining.

10 Is that fair?

11 MS. MARTABANO: Yes, your Honor.

12 THE COURT: As to the last issue, which is the GX-914,  
13 I don't think he has any reliable basis to be talking about  
14 what that screenshot is or was not. If you can have him  
15 testify just based on his code analysis and his Blockchain  
16 analysis as to what his understanding was of what was going on  
17 on October 11, that's fair. I don't think that he needs to  
18 bring in the screenshot or explain that it was inaccurate,  
19 because he simply has no basis to do that.

20 As to the audit, how many questions do you have about  
21 the audit? Because here is the issue that comes -- this is not  
22 how it was initially presented. You say the software was  
23 unaudited. The government then points to a reference in the  
24 FAQs to this audit. That presentation of the audit would be  
25 relevant to, among other things, materiality, to show that

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1 investors in Mango Markets had access to that audit, they  
2 looked at it and it would inform their expectations.

3 So I think it's problematic to have the government to  
4 have referred to that FAQ document, referring to the audit, and  
5 not have anyone be able to explain what it did or did not  
6 cover. I'll give you some leeway there, but, as I understand  
7 it, all you are going to say is, at a very general level, was  
8 it an audit of this, as opposed to this? And that's it, right?

9 MS. MARTABANO: Yes, your Honor. What a code audit  
10 means.

11 THE COURT: You are just saying the subject matter.  
12 You are not getting into the actual analysis to show what the  
13 audit did or didn't, because that would blow the door open in a  
14 way that I don't think the government has in its  
15 cross-examination. That's what we will do with the audit.

16 Mr. Burnett, any further issues? You were grabbing  
17 the microphone.

18 MR. BURNETT: Just on the audit, on cross am I allowed  
19 to point him to particular things in the audit that were  
20 covered?

21 THE COURT: You can do that. The defense wants it in.

22 Again, Ms. Martabano, you know that the more you open  
23 that door, the more the government is going to walk through it.  
24 Just to be clear, as I understood it, when we had our long  
25 colloquy, you are just pointing out this audit pertained --

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1 give it to me. What does the audit talk about?

2 MS. MARTABANO: It's just a code audit. It doesn't  
3 mean that it solves every potential problem that Mango, as it  
4 was coded, could have created. Obviously, for example an  
5 oracle problem or any kind of outside issue that wasn't  
6 strictly, does this code do what it's intended to do and does  
7 it have any bugs in it. I just think that it's important for  
8 the jury to understand that a code audit strictly looks at, is  
9 this contract working the way it was programmed to work and  
10 not --

11 THE COURT: He is not going to talk about why it's  
12 important. He is literally just going to say, it was a code  
13 audit that was about how the code works and were there any bugs  
14 in it. He did not cover any issues regarding Mango Markets'  
15 protocol.

16 MS. MARTABANO: Correct.

17 THE COURT: Move on.

18 Am I missing anything else, Mr. Burnett?

19 MR. BURNETT: No, your Honor.

20 THE COURT: I'll just say, I have an issue with why we  
21 are here in this context. And as I said before, I think the  
22 issue is that the disclosures from the defendant were woefully  
23 deficient.

24 On the other hand, the government did not insist on a  
25 more fulsome disclosure at the outset. There is a little mud

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1 on everyone's face I think in this issue. So the Court has  
2 tried to handle this in a way that would preserve the  
3 defendant's rights while avoiding unfair prejudice to the  
4 government.

5 Let's proceed, and we will take any objections as they  
6 come.

7 MR. BURNETT: One question, your Honor.

8 Mechanically, if we want to raise an objection to  
9 exclude an opinion, is the proper time to do that while he's on  
10 direct or after we have crossed him on it, for this like relied  
11 on FTI and not his own analysis point?

12 THE COURT: I don't know that we are going to be able  
13 to do it without your cross-examination. If we need to have an  
14 instruction be delivered to the jury after the fact, then we  
15 can go ahead and do that.

16 MR. BURNETT: Thank you.

17 MS. MARTABANO: Your Honor, I just wanted to clarify.  
18 The limitations are based on just those three categories, and  
19 sort of the other categories about how Blockchain works, how  
20 cryptocurrency works, those were not challenged and those are  
21 fair game still.

22 THE COURT: Those were in the prior disclosures.

23 The only thing that you should be mindful of is, on  
24 this issue that the government has raised of reliance on FTI,  
25 that seems to be a crosscutting issue. So if there are other

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1 aspects of Mr. Sheridan's testimony where he is going to be  
2 relying on the code, then you can expect that the government is  
3 going to raise an objection and say that that is an  
4 impermissible inadmissible opinion unless Mr. Sheridan  
5 furnishes some other basis for why he was in control of the  
6 analysis, added his expertise, so it's a proper opinion coming  
7 from him.

8 MS. MARTABANO: Yes, your Honor.

9 THE COURT: Mr. Hernandez, at long last, let's have  
10 the jury come in.

11 MR. KLEIN: Your Honor, the other witness today is a  
12 private investigator. We were going to call the investigator  
13 first, who Mr. Talkin is going to lead the direct on so that  
14 Ms. Martabano has a moment to go through her outline and make  
15 sure she is capturing your Honor's rulings.

16 THE COURT: Let's do it that way. Let's proceed.

17 (Jury present)

18 THE COURT: Welcome back, members of the jury.

19 I have to apologize for you because, obviously, I know  
20 that you have been back there in the jury room for a little  
21 bit. We were not taking a break. We were working hard to see  
22 if there are ways that we could further streamline the case,  
23 and I'm happy to let you know that we have found some ways to  
24 shorten this up, so I think that we are making excellent  
25 progress.

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Dwyer - Direct

1 My expectation is that we will be able to have  
2 closings, if not tomorrow, then on Wednesday, so we are ahead  
3 of schedule, and we are exactly where we need to be. Thank you  
4 very much for all your patience.

5 With that, Mr. Talkin, you may call your first  
6 witness.

7 MR. TALKIN: Thank you, your Honor. The defense calls  
8 Ronald Dwyer.

9 THE COURT: I assume someone is getting Mr. Dwyer?

10 MR. TALKIN: Yes.

11 THE COURT: I just want to make sure we are not  
12 sitting here longer than we need to.

13 MR. TALKIN: Thank you for the hint.

14  
15 RONALD DWYER,

16 called as a witness by the Defendant,

17 having been duly sworn, testified as follows:

18 MR. TALKIN: May I inquire, your Honor.

19 THE COURT: You may.

20 DIRECT EXAMINATION

21 BY MR. TALKIN:

22 Q. Good morning, Mr. Dwyer. Tell the jury what you do for a  
23 living.

24 A. I'm a private investigator.

25 Q. How long have you been doing that?

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Dwyer - Direct

1 A. Twenty-nine years.

2 Q. Prior to that, what did you do?

3 A. I was a police officer and a detective with the city police  
4 department.

5 Q. New York City?

6 A. Yes.

7 Q. What was your rank or grade when you left the New York City  
8 Police Department?

9 A. Detective.

10 Q. Did there come a time when you became involved working for  
11 the defense in the United States v. Avi Eisenberg?

12 A. Yes. Recently.

13 Q. What were you charged with doing in this case?

14 A. Looking over some of the discovery material.

15 Q. Specifically, which discovery material did you look over?

16 A. I looked at some Cellebrite records. I believe they were  
17 from a phone designated as 1B2, and I think it's Government  
18 Exhibit DX-70.

19 Q. Did you look at any other devices, or at least the data  
20 from any other devices?

21 A. I looked at HTML records from a laptop that is purported to  
22 belong to the defendant.

23 Q. You mentioned a Cellebrite records. Can you please  
24 describe very briefly what a Cellebrite record is or what  
25 Cellebrite is?

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Dwyer - Direct

1 A. Cellebrite is a computer software that allows an individual  
2 to download all of the records from a cell phone, pictures,  
3 text messages, emails, web browsing history. Just everything  
4 in the phone comes out into a report that is clear, concise,  
5 and organized.

6 Q. In this case did you look at any particular Cellebrite  
7 report?

8 A. Yes. For the phone I mentioned, the 1B2.

9 MR. TALKIN: Your Honor, if I can ask just the witness  
10 be shown DX-70.

11 THE COURT: You may.

12 Q. While we are doing that, the Cellebrite report that you  
13 looked at in this case, what was that in reference to, meaning,  
14 you just listed off a category of items a Cellebrite report can  
15 report, but which one did you look at in this particular case?

16 A. This was an extraction report of websites that were looked  
17 at on this phone.

18 Q. Is this report all that you saw on the computer or just  
19 what appears in the report? Is this report a subset of the  
20 entire computer?

21 A. Yes.

22 Q. This report that you are looking at, DX-70, is that a fair  
23 and accurate representation of the report that you looked at  
24 earlier and in your preparation and investigation in this case?

25 A. Yes.

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Dwyer - Direct

1 MR. TALKIN: Your Honor, I would offer DX-70 into  
2 evidence.

3 THE COURT: Objection?

4 MR. DAVIS: No.

5 THE COURT: That will be admitted.

6 (Defendant's Exhibit 70 received in evidence)

7 Q. I just want to go through a couple of entries, Mr. Dwyer,  
8 just starting with entry number 1.

9 THE COURT: Do you want to publish it?

10 MR. TALKIN: Yes. Please publish. Thank you.

11 Q. The first entry, if you could just read to the jury what  
12 the title is.

13 A. SEC.gov. SEC charges self-described promoter with microcap  
14 market manipulation scheme.

15 Q. What date of that search?

16 A. 12/6/2022.

17 Q. And at what time?

18 A. 2:49 p.m. UTC time.

19 Q. Now, I am going to take you all the way to the last page of  
20 that document, which would be page 11.

21 MR. TALKIN: If we can highlight number 41, first.

22 Q. Starting on the left, can you please read for the jury what  
23 this entry is about.

24 A. It's a Mango DAO. It's a website:

25 [Https:\\apprealms.today/dao/mngo/proposal](https://apprealms.today/dao/mngo/proposal) --

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Dwyer - Direct

1 Q. You don't have to read the numbers. Thank you.

2 What date and time was that entry?

3 A. October 12, 2022, at 3:01 a.m.

4 Q. I want to go right above it, number 40. That's the same  
5 URL that was searched, but I just want you to tell the jury  
6 what the date and time of that search was.

7 A. This is October 12, 2022, at 4:14 a.m. UTC time.

8 MR. TALKIN: If we could go to number 39, which is at  
9 the bottom of the previous page.

10 A. This one is: Karlstack, substack,  
11 <https://karlstack.substack.com/>. Date is 10/12/2022 and time  
12 is 5:24 a.m. UTC time.

13 MR. TALKIN: If we can go to the previous page and to  
14 number 34.

15 A. This says: Carlito on Twitter "scoop. Who was the hacker  
16 that stole more than 100 million U.S. dollars from @Mango  
17 Markets last night. Karlstack has some answers."

18 Q. You don't have to read the site, but just please tell the  
19 jury what the time and date of that was.

20 A. This is October 12, 2022, at 1:40 p.m. UTC time.

21 Q. Now, we started with out your testimony about this document  
22 by going to a search about an SEC charging an individual.

23 Is it fair to say that throughout this document there  
24 are numerous similar searches that took place after October 11  
25 of 2022?

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Dwyer - Direct

1 A. Yes.

2 MR. TALKIN: We can take that exhibit down.

3 Q. Now, I want to show you what has been marked Defendant's  
4 Exhibit 30D.

5 MR. TALKIN: Mr. Smith, just Mr. Dwyer, please.

6 This is a 60-page document. If you can just leaf  
7 through a couple more pages for him.

8 Q. Do you recognize this document?

9 A. Yeah. This is another document that I looked through from  
10 the discovery.

11 Q. Where was the information on these documents? You talked  
12 about you did some HTML. Can you explain to the jury where you  
13 looked at these and the difference of the HTMLs to the  
14 documents you see here.

15 A. These were documents that were from the laptop -- the  
16 chrome history of the laptop of the defendant.

17 Q. These documents that you are looking at, other than them  
18 not being HTML and them being PDFs, are they a fair and  
19 accurate representation of the documents you reviewed from the  
20 chrome history of the defendant's laptop?

21 A. Yes, they are.

22 MR. TALKIN: Your Honor, I will offer DX-30D.

23 THE COURT: Any objection?

24 MR. DAVIS: No, your Honor.

25 THE COURT: It will be admitted.

O4FMEIS3

Dwyer - Direct

1 (Defendant's Exhibit 30D received in evidence)

2 MR. TALKIN: This is a 60-page document, so obviously  
3 we are not going to go through the whole thing, but if we can  
4 go to the first page.

5 Q. Looking at the first page, is it fair to say that this  
6 document --

7 MR. TALKIN: If we can go to this visit and duration.  
8 You can blow up the whole top, if it's easier. Thank you,  
9 Mr. Smith.

10 Q. Just looking at the second-to-bottom line, this visit, is  
11 it fair to say that this URL visit is identifying a visit that  
12 took place on October 11, 2022, at 10:46 p.m.? Is that fair to  
13 say?

14 A. Yes, it is.

15 Q. And now I want to go to the last page.

16 The time on this is 10/12/22 at 2:14 p.m. You see  
17 that?

18 A. Yes.

19 Q. You've had an opportunity to look at all 60 documents. Am  
20 I accurate when I say that all of the visits that are  
21 identified in between in those 60 pages start with the time you  
22 said on page 1 and end with the time you stated on the last  
23 page?

24 A. Yes.

25 Q. You'll see on the bottom of this page it says: Duration, 0

O4FMEIS3

Dwyer - Direct

1 seconds?

2 A. Yes.

3 Q. Do you have any idea how that's calculated?

4 A. No, I don't.

5 Q. Just so we understand what site was looked at, looking at  
6 the page that's in front of you, it says title.

7 Do you see that?

8 A. Yes.

9 Q. And the title is Discord, Mango, Mango Markets.

10 You see that?

11 A. Yes, I do.

12 Q. There is actually a picture of a mango there?

13 A. Correct.

14 Q. So that's on all 60 pages?

15 A. Yes.

16 Q. I now want to show you some very small parts of the  
17 Discord -- of the Mango Discord checks.

18 MR. TALKIN: I will start with 30A. Please show it to  
19 the witness.

20 Q. You said that you looked at some of the discovery in this  
21 case. Did this document come from some of the discovery that  
22 you looked at in the case?

23 A. Yes, it did.

24 Q. Is this from the Discord, the Mango Markets Discord?

25 A. Yes.

O4FMEIS3

Dwyer - Direct

1 Q. Is this snippet from the Mango Discord a fair and accurate  
2 representation of a snippet that you looked at prior to  
3 testifying today?

4 A. Yes, it is.

5 MR. TALKIN: Your Honor, I'll offer 30A into evidence.

6 THE COURT: Any objection?

7 MR. DAVIS: No, your Honor.

8 THE COURT: 30A will be admitted.

9 (Defendant's Exhibit 30A received in evidence)

10 Q. Mr. Dwyer, could you please read the time stamp and the  
11 contents.

12 A. Year is 2022, October 12, 4:16. The contents: I have a  
13 friend who lost a lot of money in this hack. He's literally  
14 threatening to kill the guy if he's identified. Laugh out  
15 loud.

16 MR. TALKIN: Can we show Mr. Dwyer 30B, please.

17 Q. Same question for 30B. Is this a fair and accurate  
18 representation of a snippet from the Mango Markets Discord that  
19 you reviewed prior to testifying today?

20 A. Yes, it is.

21 MR. TALKIN: I'll offer 30B, your Honor.

22 THE COURT: Any objection?

23 MR. DAVIS: No, your Honor.

24 THE COURT: 30B will be admitted.

25 (Defendant's Exhibit 30B received in evidence)

O4FMEIS3

Dwyer - Direct

1 Q. Mr. Dwyer, would you please read it to the jury.

2 A. Year is 2022, October 12, 10:29. Contents are: I am in  
3 PR. Wonder if that guy is still here.

4 Q. You can't interpret the end of that, can you?

5 A. No, I cannot.

6 MR. TALKIN: Can we show 30C, please, Mr. Smith.

7 Q. Is that a fair and accurate representation of a different  
8 snippet from the Mango Discord chat that you reviewed prior to  
9 testifying today?

10 A. Yes, it is.

11 MR. TALKIN: Your Honor, I will now offer 30C into  
12 evidence.

13 THE COURT: 30C will be admitted.

14 (Defendant's Exhibit 30C received in evidence)

15 Q. Again, please read, starting from the top to the bottom,  
16 both the time stamp and the contents of both entries.

17 A. Time stamp is 2022, October 12, 11:44. Contents: I think  
18 the best thing to do is threaten the hacker.

19 Next entry on the time stamp is 2022, October 12,  
20 11:44, and the contents is: With violence.

21 Q. Thank you, Mr. Dwyer. I think that's it.

22 MR. TALKIN: Your Honor, let me just check my notes  
23 for one second.

24 Thank you. Nothing further.

25 THE COURT: Cross-examination.

04FMEIS3

Dwyer - Cross

1 MR. DAVIS: Thank you, your Honor.

2 CROSS-EXAMINATION

3 BY MR. DAVIS:

4 Q. Good morning, Mr. Dwyer.

5 A. Good morning.

6 MR. DAVIS: Can we pull up Defense Exhibit 30A,  
7 please, and if I can ask Mr. Smith to do that because we don't  
8 have copies. Appreciate it.

9 Q. Mr. Dwyer, you remember speaking about this Discord?

10 A. Yes.

11 Q. Can I ask you a question about this. The user name  
12 exuent3745, do you see that?

13 A. Yes.

14 Q. Do you know this person's name?

15 A. I do not.

16 Q. You don't know this person's age, correct?

17 A. Correct.

18 Q. You don't know this person's location, correct?

19 A. I do not.

20 Q. You said the date was October 12, 2022, correct?

21 A. That's what the time stamp says, yes.

22 Q. And you were not sitting with Mr. Eisenberg on October 12,  
23 2022, correct?

24 A. I was not.

25 Q. You have no idea whether he saw this message, correct?

O4FMEIS3

Dwyer - Cross

1 A. I do not.

2 MR. DAVIS: Can we go to Defendant's Exhibit 30B.

3 Q. This is a user name SIU#3920.

4 Do you see that, sir?

5 A. Yes.

6 Q. You don't know this person's name, correct?

7 A. I do not.

8 Q. You don't know this person's location, correct?

9 A. I do not.

10 Q. And you see the time stamp is October 12, 2022?

11 A. Yes.

12 Q. You were not sitting with Mr. Eisenberg on October 12,  
13 2022, correct?

14 A. I was not.

15 Q. You don't know whether Mr. Eisenberg saw this message,  
16 correct?

17 A. I do not.

18 Q. Let's talk about 30C.

19 This is user name ICHI0707.

20 Do you see that?

21 A. Yes, sir.

22 Q. You don't know this person's name, correct?

23 A. I do not.

24 Q. You don't know this person's location, correct?

25 A. I do not.

O4FMEIS3

Dwyer - Cross

1 Q. You were not sitting with Mr. Eisenberg on October 12,  
2 2022, correct?

3 A. I was not.

4 Q. You have no idea whether he saw this message, correct?

5 A. Correct.

6 MR. DAVIS: We can take that down.

7 Why don't we pull up Defense Exhibit 70. Can you we  
8 please go to line 35. Thank you, Mr. Smith.

9 Q. Do you remember speaking about this on direct examination,  
10 sir?

11 A. Yes.

12 Q. You didn't visit this website, correct?

13 A. I did not.

14 Q. You don't know what this website is at all, correct?

15 A. Correct.

16 Q. I'd like to show you Government Exhibit 1003, please.

17 You have never seen this document before, correct?

18 A. I did not see this.

19 Q. Can you please read the first sentence.

20 A. Hi, all. The Mango treasury has about 70 million U.S. DC  
21 available to repay bad debt.

22 Q. Can you please read the next sentence.

23 A. I propose the following: If this proposal passes, I will  
24 send the MSOL, SOL, and MNGO in this account to an address  
25 announced by the Mango team. The Mango treasury will be used

O4FMEIS3

Dwyer - Cross

1 to cover any remaining bad debt in the protocol, and all users  
2 without bad debt will be made whole.

3 Continue?

4 Q. I'll pause you there for a second.

5 In your review of this post, the person didn't  
6 identify themselves by name, correct?

7 A. Correct.

8 Q. I want to now look at the last sentence. Can you read  
9 starting with: By voting for this proposal.

10 A. By voting for this proposal, Mango token holders agree to  
11 pay this bounty and pay off the bad debt with the treasury and  
12 waive any potential claims against accounts with bad debt, and  
13 will not pursue any criminal investigations or freezing of  
14 funds once the tokens are sent back as described above.

15 Q. This is an anonymous post, correct?

16 A. It appears to be.

17 MR. DAVIS: Let's now go back to Defense Exhibit 70.  
18 We can go to line 34, please.

19 Q. Do you remember speaking about this website on direct?

20 A. Yes.

21 Q. Can you please read under the second column starting with:  
22 Carlito on Twitter.

23 A. Carlito on Twitter: Scoop. Who was the hacker that stole  
24 more than 100 million U.S. dollars from @Mango Markets last  
25 night? Karlstack has some answers.

O4FMEIS3

Dwyer - Cross

1 Q. What was the time of this visit?

2 A. October 12, 2022 at 1:40 p.m.

3 Q. That's in UTC time, correct?

4 A. That's correct.

5 Q. I want to show you Government Exhibit 604, please.

6 MR. DAVIS: Can we scroll down to page 2 of this,  
7 please.

8 Q. This is a flight being booked from San Juan that ends up in  
9 Israel, correct?

10 A. Yes.

11 Q. And the date is October 12, 2022?

12 A. Yes.

13 MR. TALKIN: Can we go back to the top of the email,  
14 please.

15 Q. This email was sent on October 12, 2022 at 2:30 p.m. UTC,  
16 correct?

17 A. Yes.

18 Q. That's less than an hour after the post and website visit  
19 we just discussed in DX-70, correct?

20 A. Correct.

21 MR. DAVIS: We can take that down.

22 We can go back to Defendant's Exhibit 70.

23 Q. Now, you reviewed search history and web history for  
24 Mr. Eisenberg, correct?

25 A. Yes.

O4FMEIS3

Dwyer - Cross

1 Q. And you went over searches that he did after October 11,  
2 2022, correct?

3 A. Correct.

4 MR. DAVIS: Now, in Defense Exhibit 70, if we can  
5 please pull it up. Go to line 5.

6 Q. Can you please read what is in the second column for line  
7 5.

8 A. Securities trader sentenced to 18 months in prison for  
9 market manipulation scheme that netted more than \$17 million in  
10 illicit profits.

11 Q. Now, this was after October 11, 2022, correct?

12 A. Yes.

13 Q. But the defendant also searched for this before October 11,  
14 2022, correct?

15 A. I'd have to see that.

16 MR. DAVIS: Let's go to Government Exhibit 119A,  
17 please.

18 Q. You see row 2?

19 A. Yes.

20 Q. That's a search for statute of limitations conversion,  
21 correct?

22 A. Correct.

23 Q. That's on October 8, 2022, correct?

24 A. That's correct.

25 Q. That's before October 11, is that correct?

O4FMEIS3

Dwyer - Cross

1 A. Yes, it is.

2 MR. DAVIS: Can we go to line 4.

3 Q. He searches for statute of limitations market manipulation,  
4 correct?

5 A. Correct.

6 Q. That's before October 11, 2022, correct?

7 A. Correct.

8 MR. DAVIS: Can we go down to line 9.

9 Q. That's a search for elements of fraud, correct?

10 A. Correct.

11 Q. That's on October 8, 2022, correct?

12 A. Yes, it is.

13 MR. DAVIS: Can we go to line 11.

14 Q. That's the Wikipedia page for fraud, correct?

15 A. Yes.

16 Q. That was visited on October 8, 2022, correct?

17 A. Correct.

18 MR. DAVIS: Can we go to the last line.

19 Q. This is the same post we just read, correct?

20 A. Yes, it is.

21 Q. That's from October 8, 2022, correct?

22 A. Correct.

23 Q. Mr. Eisenberg searched a lot of manipulation terms that you  
24 went over in DX-70 before October 11, correct?

25 A. Correct.

O4FMEIS3

Dwyer - Cross

1 MR. DAVIS: Let's go to Government Exhibits 800 and  
2 800A.

3 Q. This is Mr. Eisenberg's tweet from September 1, 2022,  
4 correct?

5 A. Yes.

6 MR. DAVIS: Can we go to page 2.

7 Q. You see it cites to a Justice Department news release?

8 A. Yes.

9 MR. DAVIS: Can we now pull up Government Exhibit  
10 800A.

11 Q. Can you please read the title of this press release.

12 A. Cofounder and chief investment officer of London-based  
13 hedge fund charged with FX market manipulation and fraud.

14 Q. What's the date on this document?

15 A. September 1, 2022.

16 MR. DAVIS: We can take that down.

17 Can we pull up Government Exhibit 801.

18 Q. This is a tweet from Mr. Eisenberg from September 26, 2022,  
19 correct?

20 A. Correct. I don't see 2022 on this. I may be missing it.

21 Q. Can you read where it says under justice.gov what it says?

22 A. James Patten, 63, of Winston Salem, North Carolina; Peter  
23 Coker, Sr., 80, of Chapel Hill, North Carolina; and Peter  
24 Coker, Jr., 53, of Hong Kong, China. What's a retirement  
25 without a bit of fun, friendly fraud.

O4FMEIS3

Dwyer - Cross

1 Q. Can you read the post underneath.

2 A. Three men charged with international market manipulation  
3 scheme.

4 MR. DAVIS: Can we pull up Government Exhibit 1704,  
5 please.

6 Q. Could you please read the first sentence under paragraph 1.

7 A. Starting with on or about July 6?

8 Q. Yes, please.

9 A. On or about July 6, 2022, Avraham Eisenberg, through his  
10 lawyers, filed a lawsuit in the United States federal court in  
11 *Avraham Eisenberg v. Numeris LTD* --

12 MR. TALKIN: Your Honor, I object to this one. This  
13 is beyond the scope of the direct examination.

14 THE COURT: It's overruled.

15 Q. Do you see where it says, Avraham Eisenberg sued the  
16 defendants for, among other things, price manipulation in  
17 violation of the Commodities Exchange Act, Title 7, United  
18 States Code, Section 91?

19 Do you see that, sir?

20 A. Yes.

21 MR. DAVIS: Can we please pull up Government Exhibit  
22 609.

23 Q. Do you see the first sentence where it says, Sasha Ivanov  
24 is committing a \$500 million fraud and market manipulation?

25 A. Yes.

O4FMEIS3

Dwyer - Cross

1 Q. That's the Sasha Ivanov that was sued by Mr. Eisenberg in  
2 July of '22, correct?

3 A. I don't know that.

4 Q. It's the same name, correct?

5 A. It's the same name.

6 MR. DAVIS: So let's now go to the second paragraph.

7 Q. Do you see where it says high-level description of the  
8 fraud?

9 A. Yes.

10 Q. I am going to read a sentence in the middle of that  
11 paragraph, starting with, they spent tens of millions of  
12 dollars. OK?

13 A. Yes.

14 Q. They spent tens of millions of dollars buying up waves so  
15 that the price went up from single digits to a high of 60.  
16 They then turned those waves into USDN at this inflated price  
17 and borrowed about 550 million of USDC and USDT against their  
18 USDN that they had enticed to lend on buyers.

19 Did I read that correctly?

20 MR. DAVIS: Can we zoom out for a second.

21 A. Yes.

22 Q. Do you see where it says specific fraudulent actions?

23 A. Yes.

24 Q. Can you read number 1.

25 A. Market manipulation of the waves coin.

O4FMEIS3

Dwyer - Redirect

1 MR. DAVIS: No further questions, your Honor.

2 THE COURT: Mr. Talkin.

3 REDIRECT EXAMINATION

4 BY MR. TALKIN:

5 Q. Mr. Dwyer, based on what you reviewed to testify today, is  
6 it fair to say that Mr. Eisenberg reviewed several cases  
7 regarding manipulation and fraud after December 11 of 2022,  
8 correct?

9 MR. DAVIS: Objection.

10 THE COURT: You may need to rephrase the question or  
11 ask some foundational questions first.

12 Q. Based on the information that's in evidence on DX-70,  
13 Defendant's Exhibit 70, you had testified on direct examination  
14 that there was numerous searches. What was the general tenor  
15 of most of those searches that you saw on this document?

16 A. Fraud and manipulation.

17 MR. DAVIS: Objection.

18 THE COURT: Overruled.

19 Q. What was the time period, before or after October 11, 2022?

20 A. After.

21 Q. And on cross-examination you were asked about a lot of the  
22 same type of searches that happened before October 11, 2022,  
23 correct?

24 A. Correct.

25 Q. Before you heard about them today, did you know anything

O4FMEIS3

1 about those, meaning, before you saw them in evidence here  
2 today, did you know anything about that they were in the  
3 evidence of this trial?

4 A. Yes.

5 MR. TALKIN: Nothing further. Thank you.

6 THE COURT: Mr. Davis, anything further?

7 MR. DAVIS: No, your Honor. Thank you.

8 THE COURT: Thank you very much, Mr. Dwyer.

9 (Witness excused)

10 THE COURT: Mr. Talkin, you may call your next  
11 witness.

12 MR. TALKIN: Thank you.

13 At this time we have a stipulation that we have agreed  
14 with the government, if I can move it into evidence. It is  
15 identified, even though it's on the defense case because of the  
16 timing, as a Government Exhibit 1705. For purposes of  
17 identification for the jury, should they want to hear it, we  
18 will call it the same thing, if that's OK with the Court.

19 THE COURT: The stipulation will be admitted.

20 (Government Exhibit 1705 received in evidence)

21 MR. TALKIN: Thank you. I am going to read the  
22 stipulation into evidence now.

23 It is hereby stipulated and agreed, by and between the  
24 United States of America, by Damian Williams, United States  
25 Attorney for the Southern District of New York, Assistant

O4FMEIS3

1 United States Attorneys Thomas Burnett and Peter Davis, and  
2 Special Assistant United States Attorney Tian Huang, of  
3 counsel, and the defendant, Avraham Eisenberg, by and through  
4 his counsel, Brian Klein and Sanford Talkin, that:

5 Avraham Eisenberg had an account at Circle Internet  
6 Financial Limited, which I'll call Circle for the rest of this  
7 reading, which is identified in GX-1104 and hereafter known as  
8 Mr. Eisenberg's Circle account.

9 Circle is a U.S.-based company with headquarters in  
10 Boston, Massachusetts. Law enforcement learned that about 57  
11 million USDC, all of which was traceable to the October 11,  
12 2022 events on Mango Markets, was deposited into  
13 Mr. Eisenberg's Circle account, but the majority of those funds  
14 were soon after converted to tokens on the Ethereum and Tron  
15 Blockchains sent to decentralized exchanges and then converted  
16 to other cryptocurrencies, including DAI and USDB, which law  
17 enforcement did not believe it could seize.

18 As of October 12, 2022, Mr. Eisenberg's Circle account  
19 had remaining only about 500,000 USDC, and, at law  
20 enforcement's request, that same day, Circle suspended  
21 Mr. Eisenberg's circle account, without disclosing to him that  
22 it was suspending it at law enforcement's request.

23 On November 4, 2022, Mr. Eisenberg, while still  
24 outside the United States, served Circle with an arbitration  
25 demand seeking to unsuspend that account.

O4FMEIS3

1           On November 6, 2022, after conferring with law  
2 enforcement, Circle unsuspended Mr. Eisenberg's Circle account  
3 without disclosing that it was doing so at law enforcement's  
4 request.

5           Given the relatively small amount, about 500,000 USDC,  
6 still remaining in Mr. Eisenberg's Circle account, as compared  
7 to the original deposits of 57 million USDC on October 11,  
8 2022, that were traceable to the October 11, 2022 events on  
9 Mango Markets, law enforcement requested that the account be  
10 unsuspended because they were concerned that if that were not  
11 done and the arbitration proceeded, Mr. Eisenberg would learn  
12 that law enforcement was investigating him and that he would  
13 flee from prosecution, for example, by not returning to have  
14 the United States, and/or convert the Mango Market funds that  
15 are attributed to him to other kinds of cryptocurrency or  
16 locations outside the government's reach.

17           It is further stipulated and agreed that this  
18 stipulation that I just read can go into evidence identified as  
19 Government Exhibit 1705, dated April 15.

20           Thank you, your Honor.

21           THE COURT: The defense may call its next witness.  
22 What we are going to do here is go for about 20 minutes. Then  
23 we will take our midday break.

24           MS. MARTABANO: Yes, your Honor.

25           The defense call Mr. Jeremy Sheridan.

O4FMEIS3

1           Your Honor, while we wait for the witness, can we have  
2 a brief sidebar to clarify a ruling you made earlier?

3           THE COURT: Yes, you may.

4           (Continued on next page)

O4FMEIS3

(At sidebar)

MS. MARTABANO: We just wanted to raise, obviously, we have not had a chance to speak to Mr. Sheridan to tell him he has been limited, so he is not going to be aware of the Court's ruling. I am going to do my best to keep it very narrow and tight, but we just wanted to raise if there is a way that you prefer that we either let him know -- I don't want to draw objection after objection after objection because he doesn't realize that there has been a limitation.

THE COURT: What was the limitation, just to be clear what we are talking about?

MR. KLEIN: Your Honor, you limited some of the scope of the direct based on the proffered testimony. Our questions have been narrowed to reflect your rulings. It's possible he could stray by accident. We just don't want your Honor to get mad at him because he's not aware of his rulings.

THE COURT: I understand. We will take it as it comes. Thank you. I appreciate it.

(Continued on next page)

O4FMEIS3

Sheridan - Direct

(In open court)

JEREMY SHERIDAN,

called as a witness by the Defendant,

having been duly sworn, testified as follows:

DIRECT EXAMINATION

BY MS. MARTABANO:

Q. Good morning, Mr. Sheridan. Can you tell us how you got involved in this case?

A. Good morning, ma'am. My firm, FTI Consulting, was contacted and retained by defense counsel based on our expertise in digital asset currency.

Q. I want to start with your background. You just mentioned FTI. Is that where you currently work?

A. Yes, ma'am.

Q. What do you do there?

A. I lead our investigative teams within the Blockchain and digital assets practice.

Q. How many people approximately do you oversee?

A. There is about -- there is 32 in the practice. Those specifically focus on investigations are six.

Q. About how long have you been engaged in the Blockchain and cryptocurrency analysis space?

A. Since 2019.

Q. And how long have you been involved in cybersecurity and other cyber crime issues?

O4FMEIS3

Sheridan - Direct

1 A. Since 1997, when I started my federal career.

2 Q. Can you give me a sense of the type of clients you assist  
3 at FTI.

4 A. It runs the spectrum. In the investigative missions that  
5 we have, we do track and trace for both plaintiffs and  
6 defendants of victims of fraud, theft, scam, and abuse, as well  
7 as entities, whether it's exchanges or other participants in  
8 the digital asset industry who are issuers or accused of not  
9 protecting those who have suffered fraud theft, scam, or abuse.  
10 We also do valuation through track and trace and price analysis  
11 of cryptocurrency assets. That often comes into play for  
12 securities determinations as to whether or not an individual  
13 token violates securities laws.

14 Q. Thank you.

15 You kept mentioning that you do track and trace. Can  
16 you just explain to the jury what that means.

17 A. Track and trace refers to identifying a digital asset or  
18 cryptocurrency on a specific Blockchain, tracking its movement,  
19 its flow of funds, and how it moves from individual owner to  
20 individual owner.

21 Q. I would like to take a step back to go to your education.

22 What's your highest level of education?

23 A. I have a master's degree in public administration.

24 Q. Where is that from?

25 A. University of Arizona.

O4FMEIS3

Sheridan - Direct

1 Q. Do you have an underlying bachelor's degree?

2 A. I have a bachelor's degree in criminal justice from  
3 University of Arizona.

4 Q. What was your first position in your career after you  
5 received your MPA?

6 A. I was a secret service agent for the U.S. Secret Service.

7 Q. What did you do as a secret service agent?

8 A. As most people know, we are known for our protective  
9 mission, but we also have an investigative function where we  
10 investigate financial crimes and protect payment systems. So  
11 throughout an agent's career they will phase in and out of  
12 those two different respective mission sets.

13 My first assignment was in Arizona conducting criminal  
14 investigations related to financial crimes.

15 (Continued on next page)

O4FCeis4

Sheridan - Direct

1 BY MS. MARTABANO:

2 Q. And after you did those criminal investigations, how long  
3 were you in that particular position?

4 A. Approximately four years.

5 Q. And after those four years, where did you move in the  
6 Secret Service?

7 A. I was on President Bush's protective detail in the  
8 Presidential Protective Division.

9 Q. How long were you in that position?

10 A. About four years.

11 Q. Were you doing investigation at the same time then or were  
12 you strictly --

13 A. Strictly protection.

14 Q. After those four years, what was your next position with  
15 the Secret Service?

16 A. I was in an administrative role in headquarters.

17 Q. What were you doing in that role?

18 A. It was an HR function.

19 Q. And after that?

20 A. I was assigned to President Obama's detail, again, under  
21 the Presidential Protective Division, this time as a  
22 supervisor.

23 Q. How many people did you oversee?

24 A. Approximately 22.

25 Q. After you were done supervising for president Obama, what

O4FCeis4

Sheridan - Direct

1 was your next position with the secret self?

2 A. Bounced back into the investigative role as a supervisor  
3 within the Los Angeles field office.

4 Q. What kind of investigative cases were you looking into?

5 A. So, those that are under our statute requirement, again,  
6 financial payment systems, counterfeiting, credit card fraud,  
7 as well as protective cases, protective intelligence threats  
8 against people we protect.

9 Q. I see. So threats against the president?

10 A. Yes, ma'am.

11 Q. How long were you in the LA position?

12 A. Approximately three years.

13 Q. And after that, what position did you move to?

14 A. Back to protection. I was on then Vice President Joe  
15 Biden's detail as a supervisor.

16 Q. How long were you in that position?

17 A. Approximately two years until the transition of  
18 administrations to the Trump Administration. I then assumed  
19 the Special Agent in Charge position of Vice President Mike  
20 Pence detail because I was on the vice president's detail.

21 Q. After that, what was your next position?

22 A. So then I went back into the investigations. I was the  
23 Deputy Assistant Director within the Office of Investigations  
24 right oversight of a portfolio of offices, approximately 20  
25 offices covering the northeast region and mid-north region of

O4FCeis4

Sheridan - Direct

1 the country, overseeing their criminal investigative  
2 operations.

3 Q. Were you doing any cryptocurrency or blockchain work at  
4 that time?

5 A. So that was around 2019 when I started the cryptocurrency  
6 work, overseeing cryptocurrency investigations conducted by  
7 field personnel, field agents within my portfolio of offices.

8 Q. How long were you in that position?

9 A. I was in that position for two years.

10 Q. And after that?

11 A. I was the assistant director for training positions and  
12 legislative affairs positions.

13 Q. And what do you do as the training director of legislative  
14 affairs?

15 A. Interact with congressional members for initiatives related  
16 to the Secret Service.

17 Q. Can you give me an example?

18 A. One of the major issues we did was an overtime salary  
19 determination for our uniformed personnel. So I advocated for  
20 that bill to be included in the legislative agenda and  
21 advocated for its passage.

22 Q. Were you working directly with members of Congress or the  
23 Senate?

24 A. That's correct.

25 Q. What was your position after that?

O4FCeis4

Sheridan - Direct

1 A. Became the assistant director for the Office of  
2 Investigation for the Global Secret Service Investigative  
3 Mission.

4 Q. Please tell us what that entails.

5 A. So that entails, similar to the Deputy Assistant Director,  
6 I had oversight of a specific section of the United States.  
7 The Assistant Director has oversight for the Global  
8 Investigative Mission for all offices throughout the world.  
9 That includes strategy operations, as well as administrative  
10 budgetary and other work as it relates to investigations. It  
11 involves oversight of all criminal investigations.

12 Q. And can you tell me what cryptocurrency or blockchain  
13 experience you had in that role.

14 A. Because cryptocurrency and digital assets had become the  
15 payment method and means for illicit activity predominantly in  
16 areas of concern related to ransomware and other network  
17 intrusion-type cases which we handle, I became involved in  
18 oversight of those investigations, judicial action related  
19 to -- and judicial action related to those investigations.

20 Q. At that time, did the Secret Service have any kind of task  
21 force or dedicated team working on cryptocurrency and  
22 blockchain investigations?

23 A. No, not dedicated. And that was one thing I did in my  
24 position, was to establish the agency's first dedicated illicit  
25 finance and digital asset tracing team within our headquarters.

O4FCeis4

Sheridan - Direct

1 Somewhat of a cheesy name, we called it the Crypto Knights.  
2 It's bad. So I developed the strategy, the funding, the  
3 staffing, the training, and the operational agenda for that  
4 team.

5 Q. And were you involved in the training that you developed  
6 for the team?

7 A. I did not deliver the training, but I received the training  
8 as a vetting and applicability determination, and then approved  
9 that training for our personnel.

10 Q. And how many crypto or blockchain investigations did you  
11 partake in either as a supervisor or directly in that role?

12 A. The investigations I was involved in were in a supervisory  
13 position. I didn't quantify them. I would say there were,  
14 directly that rose to my level because of where I was at a  
15 supervisor level, I would say in the two years I was there,  
16 probably 15 to 20 a year.

17 Q. Can you tell us what your final position was at the Secret  
18 Service?

19 A. I retired as the Assistant Director.

20 Q. When was that?

21 A. I retired in 2021.

22 Q. In your capacity as a Secret Service agent, did you ever  
23 testify before Congress?

24 A. I testified before Congress on three separate occasions.

25 Q. Can you tell me about those?

O4FCeis4

Sheridan - Direct

1 A. Twice in front of the House of Representatives and once in  
2 front of the U.S. Senate.

3 Q. If you could tell me about the first time you testified for  
4 the House of Representatives.

5 A. So the first time was related to the use of cryptocurrency  
6 in financing terrorism.

7 Q. And when was that?

8 A. That would have been in 2021.

9 Q. And what was your next time testifying in front of Congress  
10 and what was it about?

11 A. Next time was also House of Representatives. This one was  
12 focused on ransomware and the use of cryptocurrency to  
13 facilitate ransomware activities.

14 Q. And were they hiring you as an expert witness or just fact  
15 witness, kind of asking you questions about how things are  
16 done?

17 A. It's designated as expert testimony.

18 Q. If you know, could they pick from anyone they wanted in the  
19 federal government, or out, to come in and testify before  
20 Congress?

21 A. Yes, ma'am.

22 Q. How do you know that?

23 A. As displayed by all other expert witnesses they use, it  
24 runs the spectrum of public and private sector participants.

25 Q. And I believe you got one more to cover your testimony in

O4FCeis4

Sheridan - Direct

1 the Senate. What was that about?

2 A. That was also related to cryptocurrency and its use in  
3 ransomware activities.

4 Q. Approximately when was that?

5 A. Also in '21.

6 Q. You're no longer with the Secret Service, but do you still  
7 work with lawmakers in their capacity and in your capacity as  
8 an expert in crypto?

9 A. Yes, ma'am. I meet regularly with congressional staff, as  
10 well as less frequently congressional members themselves  
11 related to cryptocurrency regulatory and legislative  
12 considerations.

13 Q. Could you explain a little bit more about those regulatory  
14 and legislative communications.

15 MR. BURNETT: Objection.

16 THE COURT: It's overruled.

17 A. One of the biggest challenges facing the cryptocurrency  
18 industry, it's almost become a cliché at this point, is the  
19 concern for regulatory clarity. What that means is --

20 MR. BURNETT: Objection. Move to strike.

21 THE COURT: That motion is granted. The witness's  
22 last answer will be stricken.

23 Ms. Martabano, you may proceed.

24 MS. MARTABANO: Thank you, your Honor.

25 Q. After your nearly 25 years at the Secret Service, what was

O4FCeis4

Sheridan - Direct

1 your next job?

2 A. After I retired, I worked for a private cryptocurrency  
3 company, a crypto custodian which held crypto assets called  
4 PrimeTrust.

5 Q. And what did you do there?

6 A. I was the vice president of regulatory affairs.

7 Q. And as the vice president of regulatory affairs, what were  
8 some of your job duties?

9 A. My job was to communicate externally from the company to  
10 legislators, regulators, law enforcement entities about what  
11 the company was doing to comply and operate within regulatory  
12 and legislative frameworks.

13 Q. So at that time, you weren't personally doing any kind of  
14 blockchain analytics or tracing?

15 A. No.

16 Q. Why did you leave the company?

17 A. The company was facing significant financial difficulties.  
18 The "why" was almost concurrent that FTI contacted me from a  
19 recruiting standpoint to be -- however, I was going to be laid  
20 off as part of our financial difficulties because we were  
21 reducing the number of force. So it was literally the same  
22 week. I left because FTI called, but we were also reducing the  
23 personnel.

24 Q. Is PrimeTrust still in business?

25 A. No, ma'am.

O4FCeis4

Sheridan - Direct

1 Q. What happened?

2 A. So another cliché in crypto is, "Not your keys, not your  
3 crypto," which means if you don't have the private key to  
4 access a cryptocurrency wallet, that cryptocurrency contained  
5 within that wallet is impossible to retrieve. We had a very,  
6 very high dollar value asset in cryptocurrency contained within  
7 a wallet that we could not access. And quite literally  
8 overnight, that wallet went from an asset to a liability and we  
9 did not have the funds to absorb that liability.

10 Q. What, if anything, was your involvement in maintaining  
11 those keys or the loss thereof?

12 A. I had no involvement in the custody or financial  
13 maintenance of those wallets.

14 Q. And PrimeTrust, you went to FTI, I believe you just  
15 mentioned?

16 A. Yes, ma'am.

17 Q. I apologize, but I'm going to take you through a bunch of  
18 your certifications that relate to blockchain and  
19 cryptocurrency. If you can tell me what certifications you  
20 have that relate to the blockchain and cryptocurrency space.

21 A. Yes, ma'am. Three certifications from the Blockchain  
22 Council as a blockchain expert, cryptocurrency auditor,  
23 cryptocurrency expert. I have two forensic tool  
24 certifications. What these are, it's a proprietary tool by a  
25 company called Chainalysis that allows you to search

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Sheridan - Direct

1 cryptocurrency transactions on the blockchain. There are tools  
2 called Reactor, I have the Chainalysis Reactor certification,  
3 as well as a higher designation called the Chainalysis  
4 Investigative Specialist Certification. I also have -- those  
5 are specific to more technical aspects in terms of the policy  
6 and other considerations related to the blockchain. I have a  
7 blockchain for business certificate from Columbia University  
8 Executive Education.

9 Q. And are you a certified smart contract auditor?

10 A. I am.

11 Q. And who certified you in that?

12 A. Also the Blockchain Council.

13 Q. What does that entail?

14 A. So that entails reviewing smart contracts to understand  
15 underlying code and be able to evaluate the code for functional  
16 purposes.

17 Q. How long does it take to get that certification?

18 A. I believe the course is around 16 hours, and there's a  
19 certification exam associated with it.

20 Q. Do you have any other certifications related to security or  
21 leadership so it's not strictly crypto, but others from your  
22 investigative history?

23 A. So I have two other cybersecurity certifications, one from  
24 Carnegie Mellon University, which is the Chief Information  
25 Security Officer certificate. I have the Certified Security

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Sheridan - Direct

1 Information Manager from the Information Systems Audit and  
2 Control Association, and I have two certifications from the  
3 General Information Insurance Certificate Program related to  
4 strategic leadership policy and cybersecurity considerations.

5 Q. I think I've covered anything, but anything I forgot?

6 A. No, ma'am.

7 Q. Do you give speeches about crypto?

8 A. Yes, ma'am.

9 Q. Can you give us a general sense of some of those.

10 A. Both at industry conferences as well as professional  
11 conferences. Some examples of the industry conferences are the  
12 digital asset summit here in New York, as well as it's called  
13 Money 2020. It's an industry trade show for the cryptocurrency  
14 industry. It happens annually in Las Vegas. The professional  
15 conferences I've spoken at include the International  
16 Association for Financial Crimes Investigators, as well as the  
17 Cambridge Symposium on Economic Crime in London.

18 Q. And have you done any media appearances or do you have any  
19 publications related to the blockchain or Cryptospace?

20 A. Yes, ma'am. I've been interviewed on CoinDesk TV. On two  
21 occasions, I have written several blogs and industry white  
22 papers related to the industry.

23 Q. Can you tell us what CoinDesk TV is.

24 A. It is a dedicated cryptocurrency news outlet.

25 Q. And have you written on the CFTC and any lawsuits against

O4FCeis4

Sheridan - Direct

1 DAOs?

2 A. I was interviewed for an article on that subject.

3 Q. Why do you do all this cryptocurrency work?

4 A. I have a personal fulfillment from working in the industry,  
5 I think the industry is going to be transformative in many  
6 ways, I think the technology is going to be transformative in  
7 many ways, I think it will revolutionize finance in many ways,  
8 and I find great satisfaction to be a part of that type of  
9 advancement in technology.

10 Q. Do you own any cryptocurrency personally?

11 A. Yes, ma'am.

12 Q. What tokens generally, not quantities, but which tokens do  
13 you own?

14 A. I have Bitcoin, Ethereum, Solana, USDC, and MANA.

15 Q. So you have personal experience with trading all of those?

16 A. Yes, ma'am.

17 Q. And the last thing I'd like to cover before we get into the  
18 substance here, have you ever given prior expert testimony  
19 either in trial or at depositions?

20 A. Yes, ma'am.

21 Q. And can you tell me about that.

22 A. I testified in the FTX bankruptcy case and I provided  
23 deposition in a criminal case, the United States Securities and  
24 Exchange Commission v. Putnam.

25 Q. And you were qualified and proffered as an expert in those

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Sheridan - Direct

1 cases?

2 A. Yes, ma'am.

3 MS. MARTABANO: At this time, the defense moves to  
4 qualify Mr. Sheridan as an expert.

5 MR. BURNETT: Your Honor, the government preserves its  
6 continuing objection.

7 THE COURT: Subject to those objections, the witness  
8 will be qualified under Rule 702.

9 MS. MARTABANO: Thank you, your Honor.

10 Q. Mr. Sheridan, what did you do to prepare --

11 THE COURT: Hold on. Since we're at now past 12:00,  
12 is this a good breaking point for us?

13 MS. MARTABANO: Yes, your Honor.

14 THE COURT: Let's take a break. Let's come back at  
15 12:40.

16 (Continued on next page)

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Sheridan - Direct

(Jury not present)

THE COURT: Mr. Sheridan, you will continue to be under oath. You understand you're not to speak to anyone about this case or your testimony, including anyone on the defense side?

THE WITNESS: Yes, sir.

THE COURT: With that, have a nice short lunch and we'll see you back here at 12:40.

THE WITNESS: Yes, sir.

(Witness not present)

THE COURT: Anything further to take up before we come back?

MR. DAVIS: Yes, your Honor. One matter. We understand this might be the defense's last witness. And so, if now's a good time, we think the Court should allocute the defendant on his absolute right to testify and the defense should make a decision on about whether that's going to happen.

THE COURT: Mr. Talkin, is that correct, that this is your last proposed witness?

MR. TALKIN: Yes, it is, your Honor.

As far as the defendant testifying, we had informed the government over the weekend that our intention is that he will not testify and he's ready to be allocuted on that.

After I informed the government of that, something came up where it wasn't -- I don't believe that changed the

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Sheridan - Direct

1 position, but it wasn't as solid as when I had spoken to him  
2 about that, and I think that's the situation that we're in now.  
3 I think Mr. Eisenberg wants to see how this witness plays out  
4 before the final decision on that, but I can tell you that as  
5 we sit here now, our intention is for him not to testify.

6 THE COURT: Mr. Talkin, do you have any issues with my  
7 inquiring of Mr. Eisenberg?

8 MR. TALKIN: No. Thank you, your Honor.

9 THE COURT: Mr. Eisenberg, do you understand that you  
10 have the right to testify in this case?

11 THE DEFENDANT: Yes.

12 THE COURT: And you understand that if you do not  
13 testify, I will inform the jury that they are not to hold that  
14 fact against you?

15 Do you understand that?

16 THE DEFENDANT: Yes, your Honor.

17 THE COURT: Do you believe you've had sufficient time  
18 to discuss with your counsel the pros and cons of testifying?

19 THE DEFENDANT: Yes, your Honor.

20 THE COURT: Would you like to have further discussions  
21 with counsel to finalize your decision on whether or not you  
22 should testify in this case?

23 THE DEFENDANT: I would like to have a discussion  
24 after Mr. Sheridan finishes testifying.

25 THE COURT: And Mr. Davis, is there any further

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Sheridan - Direct

1 inquiry that you'd like me to make at this time?

2 MR. DAVIS: No. If the decision is not going to be  
3 made, I think when the decision is made, we would just ask that  
4 the Court confirm that this decision is absolutely his to make  
5 and that he's making that decision completely on his own. But  
6 for now, this makes sense.

7 May I raise just one logistical question before we  
8 continue?

9 THE COURT: Yes.

10 MR. DAVIS: If the defendant does intend to testify, I  
11 think we had spoke to defense counsel about starting that  
12 testimony on Tuesday, given that we were under the impression  
13 that the defendant would not be testifying and I believe  
14 counsel would also agree to that, but we wanted to put that to  
15 the Court.

16 THE COURT: I think that everyone will need some time  
17 to prepare if Mr. Eisenberg testifies, so that proposal makes  
18 sense.

19 So you should continue to speak with counsel, we'll  
20 have time for you to do that after Mr. Sheridan's testimony and  
21 during the break that we're about to have. So you should do  
22 that and make use of the time.

23 Anything else, Mr. Davis?

24 MR. DAVIS: No. Thank you, Judge.

25 THE COURT: Anything else from the defense?

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Sheridan - Direct

1 MR. TALKIN: No. Thank you, your Honor.

2 THE COURT: All right. We'll see everyone here at

3 12:40.

4 (Luncheon recess)

5 (Continued on next page)

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Sheridan - Direct

## AFTERNOON SESSION

12:54 p.m.

THE COURT: Anything to pick up before Mr. Sheridan takes the stand?

MR. BURNETT: Yes, your Honor. We had a chance to go back and look at the *voir dire* transcript, and there's just kind of one rule I want to raise and kind of preview, it's going to be a basis of what some of our objections are going to be to him.

So I know the Court pointed out that one thing the government was able to explore was the extent to which Mr. Sheridan was relying on his own knowledge versus FTI's knowledge. I wanted to point the Court to Federal Rule of Evidence 705, which says that while an expert does not, on direct examination, have to produce or show the basis for the data underlying their testimony, they are required to do that if asked on cross examination.

And that's, I think, particularly important because when there was a line of the *voir dire* when I was questioning Mr. Sheridan about an important point, and I asked him if he could see the borrows on the blockchain, and he said you could see the transactions, they're not listed as borrows or withdrawals, you can see the transactions. And then I said, okay, so you can't see what's a borrow and what's a withdraw. And then he responded, so you can tell there's two functions

O4FCeis4

Sheridan - Direct

1 that will be listed within blockchain explorers. It will list  
2 a borrow as a 1 or a 0. So you can tell when a function is not  
3 a borrow by the 0 and you can tell when the function could be a  
4 borrow by the 1. I need to actually put the documents he's  
5 talking about in front of him and ask him what's the 1 and  
6 what's the 0 he's referring to, because I'm looking at  
7 blockchain explorer data and I'm not seeing any ones and zeroes  
8 in the stuff we're looking at. If he's making this up, that's  
9 a critical point we need to be able to cross examine him on.  
10 If we don't have the data that he's talking about here as being  
11 ones and zeros that shows borrows or not, I can't effectively  
12 cross examine him, and I think 705 requires the disclosure of  
13 that.

14 THE COURT: Ms. Martabano, do you have a response?

15 MS. MARTABANO: I don't know the specific piece of  
16 code he is talking about. I think it's perfectly fine for the  
17 government to ask what blockchain data he's relying on.

18 MR. BURNETT: I need the paper.

19 MS. MARTABANO: I can't produce something I don't have  
20 in front of me right here.

21 THE COURT: Let me make sure I understand. Are you  
22 asking the Court for some relief now --

23 MR. BURNETT: If I ask him what data he relied on, he  
24 says I relied on like a transaction log from blockchain  
25 explorer and I say where is that data and he says I don't have

O4FCeis4

Sheridan - Direct

1 it, I'm going to move to exclude him.

2 THE COURT: Okay. I understand.

3 Ms. Martabano, you understand that -- to just put  
4 these rules together. Rule 16 requires the opinions and the  
5 basis for these opinions. There also needs to be a disclosure  
6 of all the documents that Mr. Sheridan relied on. So if he's  
7 providing testimony and then referring to some set of  
8 documents, he's going to have to be able to point to what those  
9 documents are in a way that Mr. Burnett can conduct his cross  
10 examination.

11 MS. MARTABANO: Yes, your Honor. I believe he would  
12 be able to direct him online to where it is. Obviously, the  
13 blockchain is public. Using the blockchain explorers is  
14 public. It's something you can do from your computer. I'm  
15 obviously not an expert, so I can't do it myself, but I don't  
16 think that we're going to have a printout of the blockchain to  
17 hand to Mr. Burnett. I am sure we could get one, but I don't  
18 think we're going to have it right now. So I think we would  
19 ask at the very least to be given a chance to provide that to  
20 him tonight because we did disclose very clearly that we would  
21 be relying on the public Discord, the public blockchain, the  
22 public smart contracts, and the data provided by the government  
23 in this case, which was, as the Court knows, quite voluminous.

24 THE COURT: How long is your direct examination?

25 MS. MARTABANO: Probably another 30 minutes.

O4FCeis4

Sheridan - Direct

1 MR. BURNETT: Your Honor, basically what they're  
2 saying is go find the internet. That's not what cross  
3 examination is. If he looked at something, he clearly should  
4 have printed it out or saved it. That's what the rule requires  
5 him to do.

6 THE COURT: Ms. Martabano, I just don't understand how  
7 you think this is permissible. Maybe help me out with just how  
8 this works, because if Mr. Sheridan engaged in essentially a  
9 tracing exercise, using data from the blockchain or any other  
10 source, then, under normal circumstances, he would be required  
11 to furnish that underlying information in connection with his  
12 testimony. Am I missing something? If that was done, there  
13 should be no issue here because Mr. Burnett would know what  
14 he's referring to and he could ask him questions based on those  
15 underlying bases. Was that not done here? What's going on?

16 MS. MARTABANO: He did not provide a report to us that  
17 was based on that. I think it was in part of his research, as  
18 I mentioned -- and I can't speak for him, but this is my  
19 understanding -- that he was on the blockchain doing blockchain  
20 research and looking. He didn't -- we didn't ask him to trace  
21 a specific transaction that he could then turn and show us. My  
22 understanding is that what he was testifying to earlier was  
23 that the way the Mango blockchain works is that there's code  
24 that represents a 0 or a 1 when something is either  
25 withdrawn -- it relates to a toggle that I believe there's

O4FCeis4

Sheridan - Direct

1 actually testimony about in the record, but I could be wrong.  
2 When that toggle is on, it's a 1 because you can be borrowing.  
3 When the toggle is off, nothing you pull out can be a borrow.

4 THE COURT: I get that and I get what he's going to  
5 testify to. I think Mr. Burnett's position is how am I  
6 supposed to cross examine him about that if I don't have those  
7 materials that he is using as the basis for his opinion.  
8 That's a fair argument. Again, the Court has bent over  
9 backwards to help the defense navigate these disclosure  
10 failures, but I think Mr. Burnett is fairly saying, I can't say  
11 anything to him that would undermine his opinion if I don't  
12 know what he relied on. The most that he's going to be able to  
13 say is that Mr. Sheridan can't point to that underlying basis.

14 Mr. Burnett, am I missing something?

15 MR. BURNETT: No, that's exactly right. Obviously, we  
16 also think he only knows about the zero-one thing not from his  
17 expertise, but because someone told it to him. Separately, I  
18 need to know what's actually a zero and what's actually a one,  
19 and where he's seeing it to cross him on it.

20 THE COURT: So Ms. Martabano, do you have any sort of  
21 authority that would permit Mr. Sheridan to testify without  
22 disclosing the actual underlying factual basis of his opinion?  
23 I think that's the question, is that he's going to offer  
24 testimony not in any of his prior disclosures, for the first  
25 time was in his disclosure that came out on Sunday, and even

O4FCeis4

Sheridan - Direct

1 then wasn't laid out with any of the specificity that would  
2 have given the government fair notice. That came out during  
3 the examination today. So under these circumstances, do you  
4 have any authority for me?

5 MS. MARTABANO: I don't, your Honor, beyond what was  
6 already submitted to the Court last night.

7 THE COURT: We'll hear the testimony, but I'll  
8 understand, Mr. Burnett, when you make the motion. You can say  
9 "motion to exclude" and I'll understand what you're talking  
10 about. I think that's the fair way to deal with this.

11 MR. BURNETT: Thank you, your Honor.

12 THE COURT: If something else comes out through the  
13 testimony, some different circumstance, then we can entertain  
14 it. Otherwise, I understand the government's position.

15 Anything else?

16 MR. BURNETT: Not from the government. Thank you.

17 THE COURT: Ms. Martabano, anything else?

18 MS. MARTABANO: No, your Honor.

19 THE COURT: If not, let's bring Mr. Sheridan, put him  
20 back on the stand.

21 (Witness present)

22 Mr. Hernandez, we can get the jury.

23 THE DEPUTY CLERK: Yes, your Honor.

24 (Continued on next page)

25

O4FCeis4

Sheridan - Direct

(Jury present)

THE COURT: Mr. Sheridan, you understand you're still under oath?

THE WITNESS: Yes, sir.

THE COURT: Ms. Martabano, you may proceed.

MS. MARTABANO: Thank you, your Honor.

BY MS. MARTABANO:

Q. Mr. Sheridan, just before the lunch break, we were getting into how you prepared to testify for trial today in addition to your general background and education on this.

In connection with this case, what have you done to prepare for your testimony here today?

A. I reviewed the indictment, I reviewed the expert disclosures of the government witnesses, I reviewed the materials made available through discovery by defense and the government.

Q. And have you been sitting in trial, listening to the testimony as it was offered?

A. Yes, ma'am.

Q. What kind of things did you look at in the discovery the government provided to the defense and then provided to you?

A. I looked at the Mango Markets user guide, reviewed the Mango Markets website, reviewed the exhibits that demonstrated the individual accounts owned by Mr. Eisenberg, and the activity associated with those accounts.

O4FCeis4

Sheridan - Direct

1 Q. And have you looked at any of the exhibits that were  
2 admitted in trial?

3 A. Yes, ma'am.

4 Q. Are there any other types of things that you've reviewed or  
5 researched?

6 A. I researched the Mango Markets version 3 website itself  
7 just to see how it functioned and operated.

8 Q. Can you tell me what you did in connection with that.

9 A. Accessed the user interface that connects to the Mango  
10 Markets protocol and just operated the system as a traditional  
11 website to see how the functionality was displayed and what  
12 prompts and actions would be taken by the user and response by  
13 the website.

14 Q. And what, if any, publicly available data did you review?

15 A. I reviewed the news articles associated with the case, as  
16 well as the Mango Markets website itself that has their  
17 documentation and their organizational information on it.

18 Q. Did you review any of the Mango Markets Discord or any of  
19 its social media?

20 A. The Mango Markets Discord, yes, ma'am.

21 Q. Is that public?

22 A. Yes, ma'am.

23 Q. Did you review the Mango Markets GitHub?

24 A. Yes, ma'am.

25 Q. Can you tell me what GitHub is?

O4FCeis4

Sheridan - Direct

1 A. GitHub is a public forum for code posting for a full  
2 spectrum of entities, organizations, individuals. It's meant  
3 to be an information and sharing platform so that people can  
4 test code, review codes, submit code for review by others, and  
5 it is a way for organizations, such as Mango Markets, to  
6 publish their code to the public.

7 Q. And is it something that's visible to anyone?

8 A. Yes, ma'am.

9 Q. In Mango Markets' case?

10 A. Yes, ma'am.

11 MS. MARTABANO: I'm going to have Mr. Smith bring up  
12 exhibit 118A that's already offered in evidence in this case.  
13 Please show it to Mr. Sheridan first.

14 Q. Mr. Sheridan, please take a look at this.

15 MS. MARTABANO: Mr. Smith, now please publish this to  
16 the jury. Thank you.

17 Q. Just have a very simple question for you based on this  
18 exhibit. Lines 6 through 11, they show the title Releases  
19 Blockworks Foundation/Mango-v3, then they have different web  
20 addresses on the column C under URL search. Do you see that?

21 A. Yes, ma'am.

22 Q. Can you tell me, do those link to the GitHub for Mango  
23 Markets that you were just referring to?

24 A. The ones in column C, rows 6, 7, and 8 appear to.

25 MS. MARTABANO: Mr. Smith, you can take that down.

O4FCeis4

Sheridan - Direct

1 Q. Mr. Sheridan, have you ever looked at the Mango Markets  
2 risk calculator?

3 A. Yes, ma'am.

4 Q. What is that?

5 A. So Mango Markets offered a tool for potential traders to  
6 enter trading input into what they call a risk calculator to  
7 see the outputs of what their trading activities would be,  
8 given the certain parameters of and specific parameters of a  
9 specific trade.

10 MS. MARTABANO: I'm going to show you what's been  
11 admitted and marked as 117A. And you can publish that to the  
12 jury, as well, Mr. Smith.

13 Q. You'll see there, I believe in line 13, it says, risk  
14 calculator-Mango Markets. Is that the website in column C  
15 where you would find the risk calculator for Mango Markets?

16 A. Yes, ma'am.

17 MS. MARTABANO: You can take that down, Mr. Smith.

18 Q. You had mentioned you're the director of the team at FTI  
19 for I believe blockchain and crypto investigations. Can you  
20 explain how it is that you work with your team. I believe you  
21 said six people focused in particular in preparing for a case  
22 such as this?

23 A. Yes, ma'am. I will direct their operations strategy  
24 activities related to the circumstances and facts of the case  
25 in order to identify the factual information, the evidentiary

O4FCeis4

Sheridan - Direct

1 information related to blockchain activities. The blockchain  
2 has immutable and permanent data. So our role is to find that  
3 data and provide it to the entity requesting it. In this case,  
4 defense counsel.

5 Q. What do you mean when you say "immutable data on the  
6 blockchain"?

7 A. It is cryptographically encoded into a blockchain or  
8 database or ledger so that it is permanent in record.

9 Q. So the blockchain itself can't be changed. Is that what  
10 you mean?

11 A. That is correct.

12 Q. Can a smart contract be changed?

13 A. Yes, ma'am.

14 Q. Before we get to that in full, I know we talked about you  
15 being certified as a smart contract auditor. Can you read  
16 computer code personally?

17 A. I could read it from a functional perspective. I'm not a  
18 programmer, I am not a developer. So my role in reviewing  
19 computer code is to understand its operations, but not its  
20 technical functionality as it relates to programming language.

21 Q. And how did you come to that understanding, how did you  
22 learn to read computer code?

23 A. Through training and practice in cases such as this.

24 Q. About how many years ago did you start learning to read  
25 computer code?

O4FCeis4

Sheridan - Direct

1 A. It was approximately 12 months ago.

2 Q. And you mentioned you can't write computer code and you're  
3 not a coder?

4 A. That is correct.

5 Q. I'd like to talk to you now about how much you're being  
6 paid to be here today.

7 Are you being paid for your testimony today?

8 A. I am paid my salary by FTI.

9 Q. Is it a flat salary?

10 A. Yes, ma'am.

11 Q. So do you get the same salary whether you bill one hour to  
12 this case or 500 hours to this case?

13 A. Yes, ma'am.

14 Q. And the same salary regardless of the substance of your  
15 testimony here today?

16 A. Yes, ma'am.

17 Q. Same salary regarding the outcome of your testimony today?

18 A. Yes, ma'am.

19 Q. Do you know how much FTI is billing the defense for your  
20 time?

21 A. \$910 an hour.

22 Q. Does FTI get paid more based on the substance of your  
23 testimony?

24 A. No, ma'am.

25 Q. Does FTI or you get paid more based on the results in this

O4FCeis4

Sheridan - Direct

1 case?

2 A. No, ma'am.

3 Q. I'd like to turn -- I believe you had some interaction with  
4 Mr. Eisenberg. Want to get into that a little bit.

5 Do you know Mr. Eisenberg personally?

6 A. No, ma'am.

7 Q. Have you ever spoken with him?

8 A. Yes, ma'am.

9 Q. When was the first time you spoke with him?

10 A. Wednesday of last week.

11 Q. And what did you discuss?

12 MR. BURNETT: Objection. Sidebar, your Honor.

13 THE COURT: Yes, sidebar.

14 (Continued on next page)

O4FCeis4

Sheridan - Direct

1 (At the sidebar)

2 THE COURT: I literally asked the question whether you  
3 were going to elicit any discussions with Mr. Eisenberg and the  
4 response was that you were not.

5 MS. MARTABANO: It's just because we thought the  
6 government planned to question him further about it, so we were  
7 just -- if they're not going to question him about it, we're  
8 happy to walk away from it.

9 THE COURT: I don't know how you could come away with  
10 that impression of the conversation. Literally, we're in the  
11 process of having a *voir dire* where the purpose was if you were  
12 going to rely on those discussions, then everyone would have a  
13 chance to inquire what those were.

14 MS. MARTABANO: No, he's not relying on them. It was  
15 just to relay what we recommend to the Court.

16 THE COURT: So, thank you for clarifying. You do not,  
17 you should not, and you may not inquire at this stage into  
18 those discussions, because it's my understanding that he is not  
19 relying on his conversations.

20 MS. MARTABANO: He's not.

21 THE COURT: He should not be testifying about those  
22 discussions.

23 Anything further?

24 MR. BURNETT: No.

25 THE COURT: Okay.

O4FCeis4

Sheridan - Direct

1 (In open court)

2 BY MS. MARTABANO:

3 Q. Mr. Sheridan, I'd like to talk to you about some background  
4 on the blockchain in general. You've heard a lot about it in  
5 this case.

6 Do you know what Solana is?

7 A. Yes, ma'am.

8 Q. What is it?

9 A. It is a publicly available blockchain that is, as with all  
10 blockchains, an immutable ledger to record transactions.

11 Q. Again, what do you mean by immutable ledger?

12 A. So, blockchain technology, by its essence, is based in  
13 cryptography that cannot be altered once it is recorded to the  
14 ledger.

15 Q. And is Solana similar to Bitcoin or Ether?

16 A. So it's similar to the Bitcoin and Ethereum blockchains in  
17 that they are all blockchains. It has different functionality,  
18 capabilities, and requirements. Most notably, it is touted to  
19 be faster in processing speed and cheaper in terms of cost of  
20 transactions that are conducted on the blockchain.

21 Q. How is that able to be the case?

22 A. The way the blockchain is constructed, Solana blockchain is  
23 constructed, there are several functions of the blockchain  
24 code. Specifically, it conducts simultaneous smart contract  
25 processing activities so that they occur in concert with each

O4FCeis4

Sheridan - Direct

1 other as opposed to, for example, the Ethereum blockchain does  
2 them sequentially. It also has more redundant features built  
3 into it so that the nodes that validate the transactions, if  
4 one were to fail, the others would operate without  
5 interruption. It breaks down information packets that are  
6 processed on the blockchain into smaller quantity of data,  
7 which, again, makes it faster. It also has a -- there's  
8 something called a mem pool or a memory pool in which, in other  
9 blockchains, most notably Bitcoin, the transactions to be  
10 validated wait in a pool for a validator to pick them up and  
11 validate them. The Solana blockchain does not have that  
12 waiting time. It sends the validations to validators ahead of  
13 that waiting period. And at its core, the consensus mechanism  
14 for the Solana consensus is the way a transaction is validated  
15 by all of those participating in the blockchain. Bitcoin uses  
16 a proof of work consensus mechanism. Ethereum uses proof of  
17 stake. Solana uses a combination of proof of stake and proof  
18 of history, and that proof of history allows the transactions  
19 to move more quickly on the blockchain.

20 Q. Okay. I've got a few followup questions from that.

21 You mentioned it has more redundant features, it  
22 breaks down packets to smaller size. I just want to make sure,  
23 when you said "it" there, you were talking about the Solana  
24 blockchain as opposed to any others?

25 A. Yes.

O4FCeis4

Sheridan - Direct

1 Q. And when you mentioned "validation in the consensus  
2 mechanism," what do you mean by "validation" or "validating  
3 transactions"?

4 A. So, all blockchains are recording data to the ledger. That  
5 data has to be confirmed and validated. Different blockchains  
6 use different methodologies in order to confirm that data to  
7 ensure that the data is accurate. That, for example, in the  
8 case of financial transactions involving cryptocurrency and  
9 individual cryptocurrency, cryptographic hash representing that  
10 cryptocurrency isn't spent twice. So, a spend or a financial  
11 transaction has to be confirmed in that validation process.

12 Q. And you mentioned consensus mechanisms. Could you just  
13 give us a little more detail about what that means.

14 A. So the blockchain is a distributed ledger, which means  
15 there are many entities involved. It's not one central entity,  
16 it's not one person or entity that has control over the  
17 blockchain and the validating the data, that is done by all  
18 participants on the blockchain in an open and transparent way.  
19 So, to achieve consensus or agreement about that particular  
20 transaction requires different methods to do that.

21 Q. Do you know when the Solana blockchain was launched,  
22 approximately?

23 A. It was 2020.

24 Q. Is that newer or older than Bitcoin or Ethereum?

25 A. It is newer.

O4FCeis4

Sheridan - Direct

1 Q. If you know, when was Bitcoin launched?

2 A. The white paper was 2009.

3 Q. Do you have experience with blockchains or exchanges that  
4 allow the trading of products called perpetuals?

5 A. Yes, ma'am.

6 Q. Tell me about that experience.

7 A. As part of my investigative duties with FTI, we handle  
8 cases to identify funds, track funds, trace funds, provide  
9 valuation, determine attribution for individual account holders  
10 and associated amounts, and tracking those funds, tracking  
11 those cryptocurrency assets or digital assets, as well as  
12 assigning attributions who hold those assets or transfer or  
13 receive those funds requires analysis that moves into  
14 decentralized exchanges that operate with perpetual options for  
15 them to trade in.

16 Q. What's a decentralized exchange?

17 A. A decentralized exchange is one that has no central entity  
18 controlling, approving, managing activities.

19 Q. For the perpetuals, are those positions that, I think you  
20 said, involved leverage?

21 A. I did not say leverage, but leverage is an option in  
22 several decentralized exchange trading platforms.

23 Q. Can you explain what that means.

24 A. Leverage is a way to amplify your position in a perpetual.

25 A position in a perpetual is risk exposure to an asset payer

O4FCeis4

Sheridan - Direct

1 and the relative price movement of an underlying asset to its  
2 partner asset. So if you are going to leverage a trade, you  
3 can increase how much profit you earn. If that price movement  
4 moves in the positive, but it also increases your risk and  
5 increases the amount you can lose if the price movement goes in  
6 the other direction against your position.

7 Q. And can a smart contract decide what levels of leverage it  
8 will allow to be used in its perpetuals?

9 A. Yes, ma'am.

10 Q. How does that happen?

11 A. It is written into the smart contract code.

12 Q. So it could, for example, say maximum 2 leverage as opposed  
13 to maximum 3 times leverage?

14 A. Yes, ma'am.

15 Q. Is it possible to code a smart contract so that it limits  
16 the maximum transaction size for any given transaction?

17 A. Yes, ma'am.

18 Q. And how would that work, if there was a transaction limit  
19 of let's say \$100 and I entered into the contract that I wanted  
20 a perpetual for \$200, what would happen?

21 A. The transaction would not be executed by the code.

22 Q. Do you know what Mango Markets is?

23 A. Yes, ma'am.

24 Q. Does it run on Solana?

25 A. Yes, ma'am.

O4FCeis4

Sheridan - Direct

1 Q. What is Mango Markets, as you understand it?

2 A. It is a decentralized exchange trading platform that  
3 operates on the Solana blockchain.

4 Q. And is it a smart contract or is it something else?

5 A. It is a smart contract application that runs on top of the  
6 Solana blockchain.

7 Q. And in terms of blockchains, what does a smart contract do  
8 or what does it mean? What is it?

9 A. It executes the instructions that you program into the  
10 contract.

11 Q. Can you give us a little more detail?

12 A. So, in the example of Mango Markets, the smart contract is  
13 designed to provide opportunities to swap cryptocurrencies,  
14 borrow cryptocurrencies, lend cryptocurrencies, open positions  
15 in a perpetual futures contract, and so forth.

16 Q. Is it automated?

17 A. Yes, ma'am, the smart contract is automated.

18 Q. In what way?

19 A. Smart contracts are base of instructions that execute those  
20 instructions that are programmed into the smart contract and  
21 there are no ways to alter that in a discretionary sense once  
22 the inputs to the smart contract are entered.

23 Q. Have you heard the term self-enforcing?

24 A. Yes, ma'am.

25 Q. What does that mean to you?

O4FCeis4

Sheridan - Direct

1 A. So, as it relates to smart contracts, they are a  
2 self-enforcing and autonomous computer program that deliver the  
3 outputs of any input that is put into them based on the  
4 requirements of the smart contract.

5 Q. Is the Mango Markets smart contract publicly available?

6 A. Yes, ma'am.

7 Q. How can someone view it or access it publicly?

8 A. That would be on the GitHub links that we discussed  
9 earlier.

10 Q. Can you tell me what "permission list" means?

11 A. As it relates to cryptocurrency, "permission list" means  
12 there are no requirements for use. Anyone can use it as long  
13 as they can access the individual protocol or blockchain that  
14 is being accessed.

15 Q. You mentioned that Mango Markets is a smart contract based  
16 decentralized exchange. Is a perpetual, as that term is used  
17 on Mango Markets, its own smart contract?

18 A. Yes, ma'am.

19 Q. What does that mean?

20 A. So that means the trade that is entered into, the position  
21 that is entered into with the perpetual smart contract is  
22 executed by the parameters of the smart contract code for the  
23 protocol.

24 Q. So there's the main protocol smart contract and then my  
25 trade, in and of itself, is a separate executing smart

O4FCeis4

Sheridan - Direct

1 contract?

2 A. It can be considered that based on the cryptography  
3 involved in creating the individual trade.

4 Q. Is there a better way to describe it? I'm not the expert.

5 A. I would call it -- I would call it a contract that's based  
6 on the smart contract code in the cryptographic hash of the  
7 individual transaction.

8 Q. And tell me if it's true or not. So you have a perpetual,  
9 each individual's position is sort of its own subcontract. Can  
10 the terms of those, as far as the smart contract code, be  
11 changed? If I wanted to set up two different perpetuals, would  
12 the same contract code control, but my inputs would make it  
13 have different outputs?

14 MR. BURNETT: Objection. Form.

15 THE COURT: I think you need to rephrase.

16 Q. I'm trying to drill down sort of the distinction between  
17 the two smart contracts and whether a perpetual always has the  
18 same base code --

19 MR. BURNETT: Objection. Testifying.

20 Q. And I'm just going to ask you: Does the perpetual for any  
21 given person have the same underlying code?

22 THE COURT: The objection, let's resolve that first.  
23 The objection is sustained.

24 Why don't you ask a new question, Ms. Martabano.

25 MS. MARTABANO: Yes, your Honor.

O4FCeis4

Sheridan - Direct

1 Q. How can you access the Mango Markets smart contracts?

2 A. Through the user interface or through direct code into the  
3 blockchain itself.

4 Q. What is a user interface?

5 A. Basically a website.

6 Q. Can a user interface be part of the blockchain or is it  
7 always centralized?

8 A. The user interface is centralized, it's not part of the  
9 blockchain, it's how you access the blockchain.

10 Q. Did Mango Markets have its own user interface?

11 A. Yes, ma'am.

12 Q. To your knowledge, was the main user interface available to  
13 the public?

14 A. Yes, ma'am.

15 Q. And in your experience in all the investigations that  
16 you've done with cryptocurrency and blockchains, how do the  
17 majority of users interact with blockchains, via the user  
18 interface or the more technical way you mentioned earlier?

19 A. By the user interface.

20 Q. Getting back to Mango Markets, what's the difference  
21 between a decentralized exchange, which I believe you described  
22 it as, and a centralized exchange?

23 A. A decentralized exchange does not have one central entity  
24 that controls it. It is run by the smart contracts that are  
25 established for the protocol and the instructions put within

O4FCeis4

Sheridan - Direct

1 those smart contracts. A centralized exchange has a central  
2 entity that controls everything related to the transactions  
3 that utilize that exchange.

4 Q. Would a centralized exchange have a more traditional  
5 corporate structure?

6 A. Yes.

7 MR. BURNETT: Objection.

8 THE COURT: Overruled.

9 A. Yes, ma'am.

10 THE COURT: Mr. Sheridan, if there's an objection,  
11 just stop and then we'll resolve the objection and you can  
12 continue.

13 THE WITNESS: Yes, sir.

14 Q. And did Mango Markets have a central corporate entity  
15 running its exchange?

16 A. Yes, ma'am.

17 Q. What was that?

18 A. I'm sorry. Can you repeat the question. I was --

19 Q. Sure. You had mentioned a centralized exchange often has a  
20 centralized entity running it. Does Mango Markets, as a  
21 decentralized exchange, have a corporate entity running it?

22 A. I apologize. No, it does not.

23 Q. To your knowledge, does the Mango Markets protocol have a  
24 CEO or a president?

25 A. No, it does not.

O4FMEIS5

Sheridan - Direct

1 Q. And does it have brokers or branch agents that you could  
2 meet with or interact with?

3 A. No, it does not.

4 Q. I'd like to talk to you about how someone sets up an  
5 account on Mango Markets. Would you explain how someone would  
6 go about doing that?

7 A. Yes, ma'am. The most common way is through the user  
8 interface, the Mango Markets website as we have described. You  
9 have to create an account profile through that website, you  
10 have to connect a cryptocurrency wallet to that profile, and  
11 you have to deposit a minimum amount of cryptocurrency assets  
12 into the account.

13 Q. You mention creating an account profile. What kind of  
14 information is collected for the account profile?

15 A. Basically, a user name that the individual user creates.

16 Q. Is there any description of what kind of name it has to be?

17 A. No.

18 Q. Does it have to be tied to your actual identity?

19 A. No.

20 Q. And is there any other information in that? So there is a  
21 user name, any other pieces of information?

22 A. No, no.

23 Q. I think that you mentioned that you have to deposit money  
24 from your Solana wallet?

25 A. Yes, ma'am.

O4FMEIS5

Sheridan - Direct

1 Q. What is a wallet on a Blockchain?

2 A. So a wallet is where your cryptocurrency assets are located  
3 on the Blockchain. It consists, usually, of a public key and a  
4 private key. Your private key is what allows you to access  
5 those funds or the location of those funds on the Blockchain.

6 Q. When you connect that Solana wallet, is that the wallet  
7 you're actually using or does another wallet get created?

8 A. So that's the wallet you use to fund the account, but once  
9 you fund the account, a separate account is created.

10 Q. And what would you refer to that as, a Mango Markets  
11 wallet?

12 A. It's generally referred to as the Mango Markets account.

13 Q. I know we said the account profile only has those two  
14 pieces. Based on your review of the publicly available data,  
15 your research in this case, and the code as you understand it,  
16 does Mango collect any other information when a person creates  
17 that account?

18 A. No, ma'am.

19 Q. For the user interface does it collect any data that the  
20 smart contract itself doesn't? So if I were interacting with  
21 the API versus the user interface, is there a difference in the  
22 data that's collected?

23 A. The user interface will collect and identify IP address to  
24 identify the location of or the geolocation of where the  
25 individual is accessing the interface from. But absent that,

O4FMEIS5

Sheridan - Direct

1 there is no other information.

2 Q. Directing you to version 3 of the protocol and of the  
3 interface that would have interacted with that, did that  
4 collect the IP information as well?

5 A. Yes, ma'am.

6 Q. Do you know what geoblocking is?

7 A. Yes, ma'am.

8 Q. What is it?

9 A. It is a way in which a website or access point can prevent  
10 access based on the geographic location of where the IP address  
11 is registered.

12 Q. Do you know whether Mango's user interface for version 3  
13 had geoblocking in place?

14 A. It did.

15 Q. How do you know that?

16 A. Based on research of materials and information in  
17 experimenting with the Mango Markets website.

18 Q. I think you already said this, but does the smart contract  
19 collect your IP data if you interact with it directly on the  
20 API?

21 A. It does not.

22 Q. Returning to account creation, does a person creating an  
23 account have to speak to anyone?

24 A. No.

25 Q. Do they have to sign any documents?

O4FMEIS5

Sheridan - Direct

1 A. No.

2 Q. In terms of the user interface that we were just talking  
3 about, based on your understanding of smart contracts and your  
4 experience with them and Blockchains in general, is it  
5 possible, as I think you described here, that a user interface  
6 may collect more data from a user than the smart contract  
7 itself if you went through the API?

8 A. That is possible.

9 Q. And here you mentioned that the Mango UI collects IP data,  
10 which the smart contract doesn't?

11 A. That is correct.

12 Q. Does the Mango UI collect any other data that the smart  
13 contract doesn't?

14 A. No, ma'am.

15 Q. Last one on what it collects. Do you know whether it  
16 requires you to sign any kind of loan document or documentation  
17 about what you are going to be doing with your money once  
18 you've -- once you create your account and deposit it on the  
19 protocol?

20 MR. BURNETT: Objection.

21 THE COURT: Overruled.

22 A. It does not.

23 Q. When was Mango Markets launched?

24 A. Version 1 was launched in February of 2021.

25 Q. And how many versions have there been total?

O4FMEIS5

Sheridan - Direct

1 A. It is currently on version 4.

2 Q. We have been talking about version 3 for the transactions  
3 in this case. Are you familiar with that version?

4 A. Yes, ma'am.

5 Q. How are you familiar with it?

6 A. That was the focus of our investigation.

7 Q. We had talked earlier about how Blockchains were immutable,  
8 and you just mentioned that these smart contracts have multiple  
9 versions. Can you explain the difference between a Blockchain  
10 and a smart contract and how you can have versions of the smart  
11 contact?

12 A. The Blockchains are the instructions for the application or  
13 for the activities that are run on top of the Blockchain. The  
14 Blockchain is the ledger that records the data. The smart  
15 contracts are the instructions that provide the data to be  
16 recorded.

17 So the different versions -- version 1 was offered  
18 basic functions, borrowing and lending of a certain quantity of  
19 cryptocurrency tokens. Version 2 also had borrowing and  
20 lending functions, but a higher number of cryptocurrency  
21 tokens. Version 3 introduced more advanced trading  
22 opportunities, such as perpetual contracts and leverage.

23 Q. How are these changes to the code made? How do you get  
24 from version 1 to version 2?

25 A. In the case of Mango Markets, there is a decentralized

O4FMEIS5

Sheridan - Direct

1 autonomous organization, a DAO, and that DAO is the collection  
2 of all users on the Mango Markets protocol, and users can  
3 propose changes to the smart contract for different functions  
4 or different activities, and vote on those proposed changes.  
5 If those proposed changes are accepted and approved, then they  
6 are implemented.

7 Q. And you mentioned all the users. Do you need to have any  
8 kind of token or register or do anything to vote in the DAO?

9 A. Yes. Your voting weight, how much vote your vote is given  
10 credit is based on the number of tokens you hold and present as  
11 part of that vote.

12 Q. Is that Mango tokens specifically or any --

13 A. Making Mango tokens.

14 Q. Do you know how Mango tokens came into existence?

15 A. As part of prior to version 3 launch, there was a token  
16 offering in order to raise funds for the DAO in which these  
17 tokens were created by the Mango Markets entity and sold on the  
18 open market.

19 Q. So there was an entity at some point, but now it's  
20 controlled by a DAO?

21 A. Yeah. The entity that -- someone has to write the smart  
22 contracts. Blockworks was the organization behind creating the  
23 Mango Markets protocol and established it in terms of its  
24 foundation. In terms of its operations and running, it's  
25 controlled by the DAO. But Blockworks created the Mango

O4FMEIS5

Sheridan - Direct

1 Markets token and issued it for sale.

2 Q. I want to focus your testimony going forward on version 3,  
3 unless I say otherwise.

4 When was version 3 launched?

5 A. In August of 2021.

6 Q. When, if ever, was version 4 launched to replace it?

7 A. That would have been March of 2023.

8 Q. Is version 3 still visible or accessible?

9 A. Yes, ma'am.

10 Q. How and in what capacity?

11 A. You can still access version 3 through the same user  
12 interface and operate its functionality with the exception of  
13 actually executing on any type of trading activity.

14 Q. So you can still access sort of the user interface for  
15 Mango version 3?

16 A. Yes, ma'am.

17 Q. I believe we already talked about it, but the code base is  
18 deposited in that GitHub link that we showed earlier on, I  
19 think, Exhibit 118A?

20 A. Yes, ma'am.

21 Q. What did you do to look at the version 3? I know you said  
22 you opened up the user interface. You mentioned that you  
23 reviewed the code. Is there anything else you did in reviewing  
24 Mango Markets version 3 and learning to understand how it  
25 worked?

O4FMEIS5

Sheridan - Direct

1 A. We put parameters into the risk calculator that is offered  
2 on version 3, which is a tool in order to analyze trading  
3 parameters based on certain inputs. So we put that  
4 information -- we put information into the risk calculator to  
5 see how those trades would perform in terms of returns of  
6 profits or losses.

7 Q. Do you remember what the main URL was for the Mango version  
8 3?

9 A. I don't want to quote it because I don't remember exactly  
10 what the URL was. If you show it to me, it was on the Mango  
11 Markets.com, and then some reference to the risk calculator  
12 itself.

13 Q. Sorry. Not for the risk calculator, but for accessing the  
14 user interface to trade.

15 A. For Mango Markets version 3?

16 Q. Yes.

17 A. You can just go to -- at the time or now?

18 Q. At the time.

19 A. It's just Mango Markets.com and then access through there.

20 Q. Is the link different now?

21 A. The link is different now.

22 Q. I would like to show you what has already been marked and  
23 admitted into evidence as GX-1010.

24 MS. MARTABANO: Mr. Smith, if you can publish that to  
25 the jury as well.

O4FMEIS5

Sheridan - Direct

1 Q. Very quickly, Mr. Sheridan, do you see Exhibit 1010?

2 A. Yes, ma'am.

3 Q. What is it?

4 A. This is the splash page that a user will receive when  
5 accessing version 3 and prior to conducting trading activities.

6 Q. What's a splash page?

7 A. It's something that comes up without user request. It can  
8 happen any time on a website. In this case it happens upon  
9 access.

10 Q. And you'll see on here it says: The V3 protocol is in  
11 public beta. This is unaudited software. Use it at your own  
12 risk. Then it has a check box next to: I understand and  
13 accept the risks. Get started.

14 In your experience, on the website, do you have to  
15 check that check box in order to access the main website?

16 A. Yes, ma'am.

17 Q. Turning to GX-1011 --

18 MS. MARTABANO: Mr. Smith, just show it to Mr.  
19 Sheridan at this point in time. This has already been admitted  
20 into evidence.

21 Q. This is a long document. Do you recognize it, or would you  
22 like to flip through some of the pages?

23 A. I recognize the document from a previous demonstration of  
24 this document from previous witnesses, at least the cover page.  
25 I am assuming the rest of it is the same.

O4FMEIS5

Sheridan - Direct

1 Q. Did you review a version of this document without the  
2 government exhibit Bates stamp on it in preparing to testify in  
3 this case?

4 A. Yes, ma'am.

5 MS. MARTABANO: I'd like to direct you to page 100 of  
6 the PDF, Mr. Smith, which bears a Bates label ending 18460, the  
7 risk calculator.

8 Q. Can you take a look at that and let me know what exactly is  
9 the risk calculator. I know you described earlier, it let's  
10 you play around with the protocol. But can you give us a  
11 little bit more in-depth explanation of what the risk  
12 calculator allows and specifically what parameters you can play  
13 with.

14 A. So, based on our experimentation with it, it will allow any  
15 inputs related to a trade and it is intended to show you what  
16 the consequences, either positive or negative, will be for  
17 those trading inputs.

18 So you can put in -- in the case of perpetuals, like  
19 we are talking in this case, you can put in your investment,  
20 you can put in your leverage, you can put in all sorts of  
21 different circumstances surrounding that trading activity and  
22 see what the results of that trading activity will be based on  
23 price movement of the underlying price for those two assets  
24 that you are putting into the perpetual contract.

25 Q. Thank you.

O4FMEIS5

Sheridan - Direct

1 MS. MARTABANO: Mr. Smith, you can publish this to the  
2 jury.

3 Q. I believe that you said that you played around on the risk  
4 calculator directly and others on your team did it.

5 Were they doing it at your direction?

6 A. Yes, ma'am.

7 Q. I think you just said that it works for perpetuals too. So  
8 if you were looking into pricing a perpetual and seeing what  
9 the impacts would be, you could enter that through the risk  
10 calculator?

11 A. Yes, ma'am.

12 Q. You mentioned that you guys actually did simulate some  
13 different scenarios. Can you tell us what scenarios you  
14 simulated?

15 A. We simulated the trading activity that was conducted by  
16 Mr. Eisenberg.

17 Q. What was the output at the time you did it?

18 A. The output reflected using the inputs that played out. The  
19 output was reflected as -- in his long position, for example,  
20 when we moved the price of the Mango token up, the long  
21 position moved into a positive balance and received profits.  
22 For the short position, when we moved the price of the Mango  
23 token down, the profits for the short position similarly moved  
24 up. Same thing for the inverse. If we showed for the long  
25 position, if the price of the Mango token -- all of these

O4FMEIS5

Sheridan - Direct

1 prices are relative to USDC. If we showed the price of the  
2 Mango token relative to USDC to go down, the long position  
3 became lost funds or was in a lost state. And for the short  
4 position, if the price of the Mango token relative to USDC went  
5 up, the short position, similarly, lost assets and became in a  
6 lost state.

7 Q. I know you mentioned that you did the same parameters that  
8 were used as the trades in this case. Did you also get to the  
9 same large amount of profit or accrued funds in the loan?

10 MR. BURNETT: Objection.

11 THE COURT: Can you rephrase.

12 MS. MARTABANO: Sure.

13 Q. When you entered in the same numbers, what was the amount,  
14 if you remember, of your account balance on the long when you  
15 entered in the prices that were at issue in the case?

16 MR. BURNETT: Objection. There are lots of prices in  
17 the case. Just framing.

18 Q. The maximum price of Mango --

19 A. For example, with the long position, we entered into the  
20 Mango price relative to USDC at .0382 cents. We put in a  
21 deposit of 5 million USDC. We put in leverage of 3.7 as a  
22 leverage. We then moved the price of Mango relative to USDC  
23 to, I believe it was 54 cents and 91 cents to see how that  
24 position would react.

25 Q. And how did it react?

O4FMEIS5

Sheridan - Direct

1 A. It went significantly positive. I don't know if we reached  
2 exactly the 488 million results that were demonstrated in the  
3 actual trading activity, but we saw that the perpetual became  
4 significantly what's referred to as in the money and  
5 profitable.

6 Q. And did you get any kind of warning that it would have a  
7 broader impact on the protocol?

8 A. No, ma'am.

9 Q. Did you simulate this with the short too?

10 A. Yes, ma'am.

11 Q. Did it ultimately tell you that you were going to be  
12 liquidated if you entered into that trade?

13 A. No, ma'am.

14 Q. What was the outcome?

15 A. So for the short trade, in the positive, we moved the Mango  
16 price to .02 cents, which was what was reflected in the actual  
17 trading activity. And, similarly, we received positive and  
18 in-the-money return of assets. We moved it into the negative  
19 on the short position by making the Mango -- price of the Mango  
20 token those same positive amounts, 54 cents, 91 cents, and the  
21 short position was then below the health value and  
22 significantly in a lost status.

23 Q. Was there any warning other than you could see it was below  
24 the health value?

25 A. No, ma'am. The health of the account turns red, and you

O4FMEIS5

Sheridan - Direct

1 see that the account is not healthy. That's the warning we  
2 receive.

3 Q. What do you understand the health ratio to be in Mango  
4 Markets?

5 A. The health ratio is the ratio of your collateral, so the  
6 ratio between your deposits and positions divided by your  
7 liabilities.

8 Q. For Mr. Eisenberg's trades, what collateral did he have?

9 A. His initial deposit of 5 million USDC in his long and just  
10 shy of 5 million in his short.

11 Q. He didn't have any other assets deposited in those accounts  
12 sitting on the protocol?

13 A. No, ma'am.

14 Q. And I know we talked earlier about opening up an account.  
15 Were the long and the short position created by Mr. Eisenberg  
16 in the same account or were they in separate accounts?

17 A. Separate accounts.

18 Q. If they were in the same accounts and one of them went  
19 below the health ratio, could the protocol take from the other  
20 account, from the other position?

21 A. If they were in the same account, yes.

22 Q. Being in separate accounts, is that possible?

23 A. No.

24 Q. When your health ratio goes below the stated requirement,  
25 what happens in Mango Markets protocol?

O4FMEIS5

Sheridan - Direct

1 A. The first thing that happens is that your account goes into  
2 a liquidation status.

3 Q. What does that mean?

4 A. That means your account can be taken over by anyone willing  
5 to liquidate it.

6 Q. Do you know what those people are called?

7 A. Liquidators or liquors.

8 Q. Can that be anybody?

9 A. Yes, ma'am.

10 Q. When you become eligible for liquidation, is there anybody  
11 you can seek clemency from?

12 MR. BURNETT: Objection.

13 THE COURT: Can you rephrase.

14 MS. MARTABANO: Sure.

15 Q. If you go into a negative health ratio and you're facing  
16 liquidation, is there a person at Mango Market you can go to  
17 and say, stop, wait, I am going to pay you back?

18 MR. BURNETT: Objection.

19 THE COURT: It's overruled.

20 A. No, ma'am.

21 Q. Is there any way for you to reach out to the liquidator who  
22 is actually doing the liquidating to ask them to stop?

23 A. No, ma'am.

24 Q. Are you aware of any ways to stop a liquidation on an  
25 account?

O4FMEIS5

Sheridan - Direct

1 A. There is only one way.

2 Q. And what way is that?

3 A. To add more assets into the account to raise the health  
4 status of your account.

5 Q. If an account is showing losses and it's liquidated, what  
6 happens when the whole thing is liquidated if there are still  
7 losses showing?

8 A. The account will go into a bankruptcy state.

9 Q. And what does that mean?

10 A. It means there are no more assets contained within the  
11 account to take by a liquidator.

12 Q. What will happen on the protocol when that happens?

13 A. An insurance fund established by the DAO will be used to  
14 make the account -- make the account whole by issuing funds  
15 from an insurance fund.

16 Q. Do you remember, during this time period, the size of the  
17 insurance fund of the DAO?

18 A. \$5 million.

19 Q. 5 million?

20 A. Yes, ma'am.

21 Q. I am going to direct you to page 111 of this document.

22 Should be Bates label ending 18470. You can take a look at  
23 that, Mr. Sheridan.

24 Does that refresh your recollection about what the DAO  
25 insurance fund was valued at?

O4FMEIS5

Sheridan - Direct

1 A. Yes. So throughout this document there are -- there were  
2 pieces of information that, in my opinion, contradict or at  
3 least appear in contradiction. The insurance fund is one of  
4 them. Earlier in the document it's referenced -- if it's not  
5 in the document, it's in the website, but it's referenced that  
6 the insurance fund is \$5 million. So that would be an  
7 automatic payment conducted by the protocol itself. The \$70  
8 million treasury is the entire inventory of available funds for  
9 the DAO for all purposes. That could be used for insurance  
10 payouts if a DAO vote is put forward to use those funds for  
11 that purpose.

12 Q. Do you know what happens if somehow the insurance fund gets  
13 emptied on a transaction? What happens next?

14 A. The next step is what's called socialized losses.

15 Q. And what is that?

16 A. Socialized losses is a mechanism wherein all users of the  
17 exchange who have assets on the exchange will be required to  
18 repay the losses in equal amounts, and the protocol will take  
19 their funds to repay those losses.

20 MS. MARTABANO: Mr. Smith, if we could go forward one  
21 page.

22 Q. Is that what's reflected and disclosed here in this user  
23 document?

24 A. Yes, ma'am.

25 MS. MARTABANO: Turning to yet the next page, 113,

O4FMEIS5

Sheridan - Direct

1 Mr. Smith.

2 Q. Top of this page says settle PnL.

3 What is settle PnL?

4 A. Settle PnL is a way to withdraw profits or have losses  
5 withdrawn from the account. It's most often used in a profit  
6 scenario where a user will settle their PnL to withdraw their  
7 profit from a specific account.

8 Q. Do you know what PnL stands for?

9 A. Profit and loss.

10 Q. It says here when you settle the PnL it moves the profit or  
11 loss. So you could settle even a negative balance?

12 A. Yes, in theory.

13 Q. Then it moves it into the USDC token balance, is that  
14 right?

15 A. Yes.

16 Q. Were all trades on Mango Markets settled in USDC?

17 A. All trades have USDC as their base token -- as their base  
18 token, so profits are settled in USDC as the base token.

19 MS. MARTABANO: Mr. Smith, if you could take us to  
20 page 133. It bears the Bates label 18493.

21 Q. Digging in a little bit further on this PnL idea, it says:  
22 What is my unsettled PnL.

23 Can you explain to me and the jury what an unsettled  
24 PnL would be.

25 A. Unsettled PnL is an account that is in a profit status that

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Sheridan - Direct

1 has earned profit that has not withdrawn the profit from the  
2 protocol.

3 Q. I have a question for you about the broader functioning of  
4 withdrawals on the protocol.

5 If I were to engage in a transaction and that  
6 transaction got me such a big profit that if I settled it and  
7 withdrew it, I would take all the liquidity out of the  
8 protocol, what would happen if I tried to settle it if it was  
9 just the exact amount of liquidity that was available in the  
10 protocol. Would I be able to take it out?

11 MR. BURNETT: Objection, form, foundation.

12 THE COURT: It's overruled.

13 A. If you were trying to take your profit that exactly matches  
14 the liquidity on the protocol?

15 Q. Yes.

16 A. Yes, you could take that out.

17 Q. And if, while I was trying to do that, someone else tried  
18 to take out just one USDC such that the protocol would not  
19 have -- would be negative liquidity, would I be able to finish  
20 my transaction?

21 A. No.

22 Q. Why not?

23 A. Because your transaction exceeds the amount of liquidity  
24 available left in the protocol.

25 Q. Is it possible for me to settle my transaction and only

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Sheridan - Direct

1 take out a part of it?

2 A. Settle your profit and loss and only take out part?

3 Q. Yes.

4 A. Based on our analysis, yes.

5 MS. MARTABANO: I'd like to turn now to page 125 of  
6 the PDF. Should be the Bates label ending 18485.

7 Q. You see this is the FAQs. What are FAQs?

8 A. Frequently asked questions.

9 MS. MARTABANO: Turning to the next page, Mr. Smith.

10 Q. You'll see a FAQ that says: Is Mango Markets code audited?  
11 This says that it has been informally reviewed. Is that  
12 audited?

13 A. Is informally reviewed audited?

14 Q. Yes.

15 A. I wouldn't consider that a formal audit. It's a review.

16 Q. Can you tell me what a white hat hacker team is?

17 A. It's someone who is looking for errors in the code, bugs in  
18 the code that would create vulnerabilities in a particular  
19 protocol.

20 Q. This FAQ asks about Mango Markets' code being audited.

21 MS. MARTABANO: Mr. Smith, if you could turn to page 3  
22 of this document.

23 Q. What is this referencing, if you know?

24 A. This is a reference to a more formal audit by a designated  
25 audit company, Neodyme.

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Sheridan - Direct

1 Q. What kind of audit is it, if you know?

2 A. This was a specific code audit to review the Mango Markets  
3 smart contracts for errors in their code.

4 Q. Can you tell us what a code audit is.

5 A. Code is a set of computer instructions designed to carry  
6 out a specific function. If that code is improperly written,  
7 it can create errors. Or if there are elements of that code  
8 that create vulnerabilities to the protocol itself or assets  
9 controlled by the protocol, a code audit is intended to  
10 identify those and recommend corrections for those.

11 Q. So in simpler terms, does a code audit review it and say  
12 the code is functioning as programmed?

13 MR. BURNETT: Objection.

14 THE COURT: Sustained.

15 Q. What are the kind of problems that a code audit could  
16 identify?

17 A. Any type of functional error. So you put an input in and  
18 the code doesn't understand it, so it can't execute it. Also,  
19 any type of gaps in the code that would allow someone  
20 unauthorized access or allow someone to access another person's  
21 funds or artificially inflate their own account. It's meant to  
22 review if the code -- for lack of a better explanation, it's  
23 meant to review, does the code work as designed.

24 Q. Is it the same thing as a financial audit?

25 A. I would not call it a financial audit.

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Sheridan - Direct

1 Q. Or a tax audit?

2 A. No, ma'am.

3 Q. It's not about the controls at a company or at a protocol?

4 A. No, ma'am.

5 Q. It's just limited strictly to the code?

6 A. That's all they look at is the code.

7 Q. Is it possible that a protocol could have other issues that  
8 aren't identified by a code audit?

9 A. Yes.

10 Q. Generally speaking, what kinds of issues would those be, if  
11 you could give us some examples?

12 A. Those would be factors that influenced the protocol that  
13 aren't contained within the code, but perhaps the code relies  
14 on for information. In trading protocols, that's most commonly  
15 a pricing input, such as in oracle or other type of feed into  
16 the code that the code itself does not control.

17 Q. Mr. Sheridan, did you review the Mango Markets audit that's  
18 linked here in this document?

19 A. Yes, ma'am.

20 MS. MARTABANO: Mr. Smith, if you could take this down  
21 and take the screen away from the jury and show just Mr.  
22 Sheridan Defendant's Exhibit DX-60.

23 Q. Mr. Sheridan, we are showing you what has been marked for  
24 identification by the defense as DX-60. Please take a look at  
25 this and let me know if you need Mr. Smith to advance it

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Sheridan - Direct

1 several pages so you can get a better read.

2 A. Can you advance it, please.

3 Next page.

4 This appears from the first three pages to be the same  
5 document I reviewed in preparation for testimony.

6 Q. So you recognize this document?

7 A. Yes, ma'am.

8 Q. And what is it?

9 A. This is the results of the Neodyme audit conducted on Mango  
10 Markets.

11 Q. How do you know that?

12 A. Because I reviewed this information in preparation for  
13 testimony, and the contents of this document explain their code  
14 review.

15 Q. You believe that DX-60, as you reviewed it, is a true and  
16 correct copy of the Neodyme audit referenced in GX-1011 that we  
17 were just looking at?

18 A. Yes, ma'am.

19 MS. MARTABANO: Your Honor, I move to admit DX-60 into  
20 evidence.

21 MR. BURNETT: No objection.

22 THE COURT: It will be admitted.

23 (Defendant's Exhibit 60 received in evidence)

24 MS. MARTABANO: May I publish it to the jury, your  
25 Honor?

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Sheridan - Direct

1 THE COURT: You may.

2 MS. MARTABANO: Please publish it, Mr. Smith.

3 Q. I would like to turn to you page 3 of the document.

4 Can you take a moment to review the introduction.

5 This suggests that there was an audit -- how would you

6 characterize this introduction to this report?

7 A. As a summary of their findings for the audit conducted

8 between January and April of 2022.

9 Q. And it was of the Mango version 3, so the version we have  
10 been talking about all day?

11 A. Yes, ma'am.

12 MS. MARTABANO: Mr. Smith, you can take that down.

13 Q. We had talked about liquidation earlier. If I only put \$10  
14 million into the platform, but I have a short that's 100  
15 million under water, how much money can the protocol take from  
16 me?

17 A. \$10 million.

18 Q. It can't collect anything else from my account?

19 A. No, ma'am.

20 Q. Is there a collections process built into the code?

21 A. Through liquidation. The other -- any positive assets you  
22 have on your code will be removed from your account. Excuse  
23 me. Any positive assets you have within the protocol will be  
24 removed from your account.

25 Q. Just within that one account. So if I had separate

O4FMEIS5

Sheridan - Direct

1 accounts, it would just be from that one account?

2 A. Yes, ma'am.

3 Q. I'd like to turn you now to Mr. Eisenberg's trades, the  
4 reason why we are all here, specifically about the perpetual  
5 contracts he purchased. We have talked about the long and the  
6 short. There has been other evidence offered in this case  
7 which you have observed?

8 MR. BURNETT: Objection.

9 Q. Given how you have explained liquidation, what would happen  
10 to the money in Mr. Eisenberg's accounts if his health scores  
11 fell below zero?

12 A. They would start to be liquidated.

13 Q. And is that automatic?

14 A. Yes, ma'am.

15 Q. And I believe we have covered this, but based on your  
16 review, is there a way in the code he could stop it other than  
17 putting more assets in?

18 A. That's the only way to stop liquidation.

19 Q. I believe you mentioned before his 488.3 million perpetual  
20 contracts. Have you done Blockchain analytics to determine  
21 whether he ever closed his perpetual positions?

22 A. Yes, ma'am.

23 Q. And what was the result of that? Were they ever closed?

24 A. No, ma'am.

25 Q. Were they settled?

O4FMEIS5

Sheridan - Direct

1 A. No, ma'am.

2 Q. How do you know that they were never closed?

3 A. You can still access the protocol today and see those  
4 accounts.

5 Q. As you understand it, based on your research into his  
6 transactions and your analytics of Mango Markets and the  
7 Blockchain, would Mr. Eisenberg's long and short positions have  
8 mirrored one another and completely offset each other in terms  
9 of profit and loss?

10 A. Not in complete synchronicity.

11 Q. Why not?

12 A. Because each individual count had liquidations that  
13 occurred to it independent of the other.

14 MR. BURNETT: Objection, your Honor. Sidebar.

15 THE COURT: All right. Brief sidebar.

16 (Continued on next page)

O4FMEIS5

Sheridan - Direct

1 (At sidebar)

2 MR. BURNETT: Your Honor, we literally just had a  
3 conference where you excluded testimony about what the  
4 liquidations were in his account because his background and his  
5 knowledge of that comes from the whiskeyfries document. Our  
6 understanding was the whiskeyfries document is not coming in,  
7 and he is not allowed to testify about the facts he learned  
8 from that because it's not authentic and hearsay. He seems to  
9 be doing exactly that.

10 THE COURT: I thought this was a different point.

11 MS. MARTABANO: It is a different point. He is not  
12 going to be getting into the details of that data. That was  
13 the end of it. He is just testifying to the fact that they are  
14 not a straight-line analysis that there are liquidations. As  
15 the Mango Markets code works, both liquidations and funding  
16 payments are transferred between positions.

17 MR. BURNETT: Your Honor, I would ask for a readback  
18 because what he testified to were that there were liquidations  
19 that weren't synchronous between the two, which is factual  
20 testimony about theoretical testimony. His basis for that  
21 comes from only that whiskeyfries document.

22 MS. MARTABANO: I'm happy to clarify or have it  
23 stricken and clarify it on the record. That's not what I  
24 heard, but I'm happy to --

25 THE COURT: I think he said that the liquidations were

O4FMEIS5

Sheridan - Direct

1 not symmetrical between the two positions, and for that reason  
2 they were not in perfect synchronicity, I think is the term  
3 that he used.

4 And is the basis for that the whiskeyfries document?

5 MS. MARTABANO: No. It is based on his understanding.  
6 I was asking him -- I don't know what his basis was, if that is  
7 his precise answer. I was asking him, based on how it works,  
8 positions that appear to be offsetting will have liquidation  
9 payments. It doesn't even have to be specific to  
10 Mr. Eisenberg.

11 THE COURT: Are you asking further questions along  
12 this line?

13 MS. MARTABANO: No. I just want that point.

14 THE COURT: If that's your only question, I am going  
15 to overrule the question and move on.

16 (Continued on next page)  
17  
18  
19  
20  
21  
22  
23  
24  
25

O4FMEIS5

Sheridan - Direct

1 (In open court)

2 Q. Just one point of clarification, Mr. Sheridan, about an  
3 earlier question. You said he had never -- I believe you had  
4 said he had never settled or closed the perpetuals, is that  
5 correct, or were you talking about something else?

6 I'm not talking about settling a position, but just  
7 closing out or selling off the perpetual positions that he had.

8 A. He did not sell off his perpetual positions.

9 Q. After Mr. Eisenberg opened the positions, what happened  
10 next?

11 A. After he opened the positions on Mango Markets, the account  
12 values began to change based on changes in prices in the Mango  
13 token.

14 Q. And did there come a time at which Mr. Eisenberg removed  
15 funds from the platform?

16 A. Yes, ma'am.

17 Q. Do you know how much he removed?

18 A. Approximately \$116 million.

19 Q. And are you familiar with the sort of order of his  
20 removals?

21 A. Yes, ma'am.

22 Q. And what was the first amount that he removed from the  
23 platform?

24 A. What we identified as a settlement of profit and loss of  
25 \$50 million.

O4FMEIS5

Sheridan - Direct

1 Q. And were you involved directly in doing that Blockchain  
2 analytics and identifying the settlement that you just  
3 referenced?

4 A. Yes, ma'am.

5 Q. What was that \$50 million in, if I misheard you?

6 A. USDC.

7 Q. How long after the settlement was the withdrawal, if you  
8 know?

9 A. Approximately 17 seconds.

10 Q. I think you said that Mr. Eisenberg withdrew around 110 or  
11 \$116 million.

12 When that was done, what happened to the protocol?

13 A. The protocol at the time of removing the \$116 million was  
14 liquidating his long and short positions and attempting to  
15 recover liquidity to cover the losses associated with the  
16 amount. His accounts collectively were in negative balance.

17 Q. Did the protocol ever freeze at a given point because of  
18 the liquidity that had been removed?

19 A. The protocol was paused at a certain point.

20 Q. And what is a pause?

21 A. In this case it was a determination by the DAO -- excuse  
22 me. Not by the DAO; by the management team, the security  
23 protocol team of Mango Markets to pause the protocol.

24 Q. Who is the security team that you just referenced?

25 A. It's the developers, the coders, the elements of Mango

O4FMEIS5

Sheridan - Direct

1 Markets who create the protocol and administer functions on the  
2 protocol.

3 Q. Do you know how they did that, whether they had to write  
4 code or take a vote or do anything like that?

5 A. In order to pause the protocol, there was no vote. It was  
6 a decision not voted on by the DAO. In terms of how  
7 specifically that's done, I don't have that answer.

8 Q. You mentioned that it was the Mango security council?

9 A. Yes. There are several terms, as I stated earlier, within  
10 the Mango Markets documents. There are different functional  
11 elements within Mango Markets whose roles are not entirely  
12 outlined. So there is an upgrade council, there is a security  
13 council, there is support team members. Which one of those  
14 specifically paused the protocol, I can't testify to.

15 Q. Are you able to say whether Mr. Eisenberg was involved in  
16 pausing the protocol?

17 A. Mr. Eisenberg was not involved in pausing the protocol. It  
18 would have to be someone with designated rights by the protocol  
19 to do such an action.

20 Q. Do you know approximately what time that pause of the  
21 protocol happened?

22 A. I don't have the time off the top of my head.

23 Q. After the trades and after the pause, what happened next on  
24 the Mango Markets protocol?

25 A. As it relates to this case?

O4FMEIS5

Sheridan - Direct

1 Q. Yes.

2 A. There were proposals presented to repay the debt still  
3 outstanding.

4 Q. I'd like to show you and only the witness, Mr. Smith, an  
5 exhibit that's already been offered and admitted as GX-1003.

6 Do you recognize this proposal, Mr. Sheridan?

7 A. Yes, ma'am.

8 Q. What is it?

9 A. This was a proposal called repay bad debt which was  
10 submitted to the DAO.

11 MS. MARTABANO: Mr. Smith, if you could publish it to  
12 the jury.

13 Q. What is this proposal proposing?

14 A. This proposal was to send Marinated SOL, SOL, and MNGO in  
15 this account to an address announced by the Mango team. It's a  
16 request for approval for the Mango treasury to cover remaining  
17 bad debt and bad debt to be viewed as a bug bounty or insurance  
18 paid out of the Mango insurance fund.

19 Q. I think you might have skipped over. Does it also say that  
20 all users without bad debt should be made whole?

21 A. I'm sorry. Did you want me to read this verbatim?

22 Q. I just wanted to capture all the parts of the proposal.

23 A. I apologize. Yes. And it proposed to make all users  
24 without bad debt to be made whole. As I stated, any remaining  
25 bad debt will be viewed as a bug bounty and insurance that will

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Sheridan - Direct

1 be paid out of the Mango insurance fund. It continues to  
2 state: By voting for the proposal, token holders will agree to  
3 pay for the bounty and pay off the bad debt with the treasury  
4 and waive potential claims against accounts about bad debt and  
5 not pursue any criminal investigations or freezing of funds  
6 once the tokens are sent back.

7 Q. In the course of your investigation and preparation in this  
8 case, were you able to determine what time this proposal was  
9 made?

10 A. Yes. It's in the -- I don't recognize it on this exhibit.  
11 I know repay bad debt 2 has a time stamp.

12 Q. Do you remember directing your team to identify the time of  
13 the proposal?

14 A. Yes, ma'am.

15 Q. And were you able to do that with them?

16 A. Yes, ma'am.

17 Q. Do you remember what that time was?

18 A. I don't off the top of my head.

19 Q. If I have a document, could I refresh your recollection or  
20 try to?

21 A. Yes, ma'am.

22 MS. MARTABANO: Mr. Smith, please remove this from the  
23 screen and please remove the jury's access to the screen.

24 Please put up DX-64 and show it only to Mr. Sheridan.

25 Q. Mr. Sheridan, why don't you take a look at that and let me

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1 know if you can confirm what time that first proposal was made  
2 and date, if you could.

3 A. October 11 at 9:13, as listed on this sheet.

4 Q. Is this Eastern time?

5 A. Yes.

6 MS. MARTABANO: You can remove that, Mr. Smith.

7 Q. Going back to repay bad debt that we were just talking  
8 about, Exhibit 1003, do you know whether that proposal was  
9 approved?

10 A. That proposal was not approved.

11 Q. Was there a subsequent proposal?

12 A. Yes, ma'am. Repay bad debt 2.

13 MS. MARTABANO: Mr. Smith, if you could show to Mr.  
14 Sheridan and the jury what has already been marked and admitted  
15 as GX-901.

16 Q. Mr. Sheridan, what does this proposal reflect?

17 A. This proposal is a second proposal that similarly lays out  
18 suggestions for response to the events on October 11.

19 Q. And does it list a long list of assets and an amount of  
20 assets proposed to be returned?

21 A. Yes, ma'am.

22 Q. And you will notice, just at the bottom of that, it points  
23 it will be sent to a wallet owned by the Mango upgrade council.

24 Is that the same council I think you were talking  
25 about before? I think you talked about it as the security

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1 council?

2 A. Yes, ma'am. Again, I don't know which council paused the  
3 protocol. In this case the specific council is designated  
4 related to this proposal.

5 Q. Were you able, in your research and experience on this case  
6 in conjunction with your team, to identify the date that this  
7 was proposed?

8 A. Yes, ma'am.

9 Q. What day was that?

10 A. That was -- I'm sorry. Can you bring up the spreadsheet  
11 again. It's listed in the spreadsheet. I just don't want to  
12 give a bad date.

13 Q. Sure.

14 MS. MARTABANO: Mr. Smith, please take the view away  
15 from the jury and bring back what's been marked as DX-60 for  
16 Mr. Sheridan only.

17 Q. Having looked at that, can you tell us what time it was  
18 proposed?

19 A. That would be October 14 at 4:17 p.m.

20 Q. Eastern time?

21 A. Yes.

22 Q. Mr. Sheridan, do you know whether repay bad debt 2 was  
23 ultimately approved?

24 A. It was.

25 Q. And after analyzing the Blockchain transactions that ensued

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Sheridan - Direct

1 after that approval, do you know whether all of those tokens  
2 were transferred as promised in the proposal?

3 A. They were.

4 Q. Do you know about how much that was worth at the time?

5 A. Approximately \$67 million.

6 MS. MARTABANO: No further questions.

7 THE COURT: Can we have counsel for a brief sidebar.

8 (Continued on next page)

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Sheridan - Direct

1 (At sidebar)

2 THE COURT: It looks like Ms. Martabano did not ask  
3 certain questions that were relevant to some of the things that  
4 came up.

5 My question for you is, to avoid any motions to  
6 exclude, is there any information that, if furnished in the  
7 next couple of hours, may provide you with that missing basis  
8 that would then allow us to have a cross-examination where we  
9 don't have to have a potential exclusion issue?

10 MR. BURNETT: Two things, your Honor.

11 One is, Mr. Sheridan testified that there was a settle  
12 of 50 million. The rest was then followed by a withdrawal.  
13 There is one exhibit that was put in during Mr. DeCapua's  
14 testimony, which was DX-50, which refers to a settle that I  
15 think he is referring to, but there is nothing in that that  
16 mentions the amount of the settlement, 50 million.

17 To the extent there is any data of that he's relying  
18 on for that 50 million number, that's one piece of it,  
19 especially because during *voir dire* he testified he himself  
20 couldn't identify things like numbers or amounts. He needed  
21 his FTI team to do it. That's one.

22 Second, there are a number of times, and I don't know  
23 if this was just his imprecision or was an argument he was  
24 making, where he equated settling with withdrawing. He made it  
25 sounded like a settlement withdraws something. The documents

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Sheridan - Direct

1 very clearly say a settlement transfers money to your account  
2 balance, which was not a withdrawal.

3 So if he is going to stand by the point that a settle  
4 equals a withdrawal, we would ask for whatever the basis is for  
5 that. I don't know if he's making a code point or he is just  
6 getting it wrong.

7 THE COURT: Why don't we do this. Why don't we start  
8 tomorrow with your cross-examination.

9 You have heard the things that counsel thinks are  
10 missing. I'll give you the opportunity to turn that over.

11 Taking a step back, I think that based on what I  
12 heard -- Mr. Sheridan's testimony presents many issues here  
13 just in terms of just thinking about the probative value versus  
14 any prejudice to the government to begin with. I would like to  
15 try to avoid these preclusion issues, if we can, so that if  
16 there is absolutely no issue with his testimony coming in, then  
17 you should acknowledge that this is -- I think this is  
18 consistent with the Court's attempt to give the defense every  
19 chance to put on its case, so that's why I'm doing this. If  
20 Mr. Burnett were to start his cross-examination, there is going  
21 to be motions to preclude, and I want to see if we can avoid  
22 that before we have to get into those issues. Since we have  
23 some additional time, that's why we will do it this way.

24 MR. DAVIS: Judge, may I be heard very briefly on  
25 that?

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Sheridan - Direct

1 THE COURT: Yes.

2 MR. DAVIS: One procedural concern. He is currently  
3 on the stand about to be on cross-examination. The defense  
4 should not be able to talk to him about these issues.

5 THE COURT: Absolutely. They understand that.

6 MR. KLEIN: We are not planning on talking to him.

7 THE COURT: He needs to go to some secluded location.

8 MR. BURNETT: So you know, right now, to the extent we  
9 move to preclude anything beyond those two narrow points.

10 THE COURT: I don't think he testified about anything  
11 else.

12 MS. MARTABANO: May we speak to the FTI team to get  
13 the data?

14 THE COURT: Let's go back and let the jury go.

15 (Continued on next page)

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O4FCeis6

(In open court)

THE COURT: So we're at 2:30. We're going to adjourn for the day. We'll be back here tomorrow to get started at 9:00 a.m. We're going to, again, try to make things a little bit more streamline. Still on pace to have closings probably on Wednesday. So we'll be able to give you the case after closings and closing instructions.

Again, thank you so much for all your patience. Enjoy your afternoon. We'll see you here tomorrow.

(Continued on next page)

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(Jury not present)

THE COURT: So, just to finish off the discussion from sidebar. Ms. Martabano, you can retrieve information from FTI, but you should explicitly tell FTI they are not to have any conversations with Mr. Sheridan, and of course you should not have any conversations with Mr. Sheridan.

MS. MARTABANO: Yes, your Honor.

THE COURT: Anything else relating to Mr. Sheridan's testimony?

MR. BURNETT: Not from the government.

THE COURT: What are we thinking in terms of timing? I understand that you wanted to wait until Mr. Sheridan's testimony is complete to make an evaluation as to whether Mr. Eisenberg is going to testify.

MR. TALKIN: Your Honor, I respectfully submit --

THE COURT: Hold on. Mr. Sheridan.

THE WITNESS: I'm assuming that means go?

THE COURT: That means go. You're still under oath. Remember, as I told your counsel, they're not to talk to you, you're not to talk to them, nobody talks to anybody. Okay?

THE WITNESS: Yes, sir.

Can I grab a folder? Is that okay? I left my folder, my documents that I left --

THE COURT: Yes, you can.

(Witness not present)

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1 Mr. Talkin, continue.

2 MR. TALKIN: Thank you, your Honor.

3 I think what we're going to do is we're going to talk  
4 to our client again now. I think the way, logistically, and  
5 I'm not saying this would happen, but let's say he decided he  
6 wanted to testify, based on my representations and the  
7 necessities really of both parties, because it would be  
8 unexpected, I think the rest of tomorrow would be that  
9 preparation time because we won't have access to him late  
10 tomorrow, so we would probably have to do that in the  
11 courthouse. So I think it makes sense for us to make that  
12 decision in the morning after the cross, and then we'll either  
13 be done and we could do the charge conference -- I'm just  
14 suggesting here, Judge, I'm not trying to say what should  
15 happen. And then we do the charge conference and we then come  
16 in and sum up the next day or we'll proceed to the testimony,  
17 the following day and then summations. So I just think there's  
18 the practical problem -- if he was out, I think it would be a  
19 lot easier to deal with.

20 THE COURT: I want to make sure that you and  
21 Mr. Eisenberg have enough time to thoughtfully think of that  
22 question, and I'm going to allocute Mr. Eisenberg on that issue  
23 at the appropriate juncture.

24 I take it from what you're saying is you prefer not to  
25 do that now because Mr. Sheridan hasn't finished testifying, so

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1 you can't evaluate?

2 MR. TALKIN: Correct. And I haven't had that  
3 discussion with him since we had heard the testimony, so it's  
4 really twofold.

5 THE COURT: Are you able to do that now?

6 MR. TALKIN: Yes, that part I can do now.

7 THE COURT: So then there are two scenarios. One  
8 scenario is where we do closings starting Wednesday morning,  
9 the other scenario is we do it on Thursday morning; right?

10 MR. TALKIN: That's how I see it.

11 THE COURT: Government have any issues there?

12 MR. BURNETT: No, your Honor.

13 THE COURT: The only issue is going to be our one  
14 juror who is heading to Marrakesh on Friday, but we'll cross  
15 that road when we get to it. Maybe I can make a call to Delta  
16 Airlines and figure out how to make some adjustments. If the  
17 parties are on board with that, I think that makes sense.

18 Ms. Goldberg, why don't you hand these out.

19 These are versions of the proposed jury charge with  
20 line numbers that will hopefully help us when we're at our  
21 charge conference. There are very few differences between this  
22 copy of the proposed charge and the one that you received on  
23 Friday. This is all subject to discussion at the charge  
24 conference.

25 So the three changes are to remove "market" from

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1 "market price" with respect to Counts One and Two based on the  
2 government's submissions. I considered both parties'  
3 submissions. The government, at least at the present time,  
4 points to the lack of market price in the statutory text as  
5 well as Second Circuit authority that indicates that the  
6 definition of "price" is not as narrow as what the defendant is  
7 contending in this case is the market price, while also arguing  
8 that the settlement price would be a market price properly  
9 understood, but given some of the submissions that the  
10 defendant has made, there may be confusion that "market price"  
11 has a more narrow definition that is not consistent with the  
12 usage of "price" in the governing statute and regulations here.  
13 So that has been changed.

14 Second, the government seeks to include an instruction  
15 on disclaimers. I view this as similar to the terms of service  
16 issue, which is just that as with terms of service, we pointed  
17 out, look, you can consider this, but it doesn't kind of govern  
18 the outcome of the claim. I used verbatim the defendant's  
19 submission on the terms of service instruction, and the Court  
20 simply integrated in an additional couple of lines on  
21 disclaimers to make that same point that, as a matter of law,  
22 it does not make any representations immaterial. The jury  
23 should simply consider that along with all the other evidence  
24 in the case that they want to consider, which I think is a fair  
25 instruction. But again, I'll hear both sides on that.

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1 As to mix swap, which is the subject of 400 letters  
2 that I received from the parties, what I've proposed at least  
3 is to include the theories, the base theories of how the  
4 government contends the perpetuals are swaps, and then  
5 essentially adopt the defendant's instructions as to including  
6 narrow-based security index mainly because it puts that issue  
7 in the instructions, the jury can make its determination, both  
8 sides can argue whether it is or is not a narrow-based security  
9 index, whether you're talking about the funding rate or USDC.

10 Now, one question I had for Mr. Greenspan. So in the  
11 proposed instruction, as to USDC, you had added the  
12 clarification, "as long as USDC is not a narrow-based security  
13 index." Explain to me how USDC could be a narrow-based  
14 security index.

15 MR. GREENSPAN: Can you give me one second and let me  
16 pull out our proposal?

17 THE COURT: Sure. I can tell you that that's exactly  
18 what it says.

19 MR. GREENSPAN: I'll take your representation on that.

20 THE COURT: It's not addressed in your letter. To set  
21 the stage, in your letter, you indicate that USDC is a stand-in  
22 for the dollar. So, on that basis, it could not be something  
23 that the swap is based on, and you give some examples about  
24 that. However, when it comes time to actually discussing the  
25 proposed instruction, you leave USDC in there and simply say,

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1 "as long as it's not a narrow-based security index." I want to  
2 make sure the Court was understanding the defendant's position  
3 correctly.

4 MR. GREENSPAN: I think we were struggling to find a  
5 way to put narrow-based security index in. We're not proposing  
6 that USDC is a narrow-based security index.

7 THE COURT: You're not taking the position that USDC  
8 is a security here?

9 MR. GREENSPAN: Correct.

10 THE COURT: I just don't understand how it could be a  
11 narrow -- if USDC is not a security, then it could not, unless  
12 I'm missing something, be a narrow-based security index. I  
13 guess you could say, well, there's one security and it's an  
14 index, so that one security, and so that's a narrow-based  
15 security index. That would be the way to do it.

16 If you're not taking the position that USDC is a  
17 security, then it seems like the government's proposed  
18 instruction on USDC, that part of it would be correct, and then  
19 you, on the funding rate issue, would have the argument that  
20 the rate is essentially a narrow-based security index based on  
21 how that rate is put together, and both sides can make their  
22 arguments on narrow-based security index.

23 MR. GREENSPAN: That's right. Thank you, your Honor.

24 THE COURT: And no need for the government to have any  
25 reactions to this. We'll pick it up at the charge conference.

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1 But anything as to any of the issues as I described them in two  
2 seconds of detail?

3 MR. BURNETT: No, your Honor. That sounds good. If  
4 this is the way you're thinking about it, I think one thing we  
5 may do is propose an instruction that defines the term  
6 "interest" as we discussed in the letter last night because we  
7 think that's important for the jury understanding what a  
8 narrow-based security index is and the meaning of the term  
9 "interest" there, but that would be a one-sentence addition.

10 THE COURT: I'll hear everyone's suggestions on both  
11 sides. That's what the charge conference will be for. I  
12 expect both sides, as I mentioned in my email, to raise all  
13 their objections, and we'll go page by page and get it done.

14 Anything else, Mr. Burnett? Mr. Davis.

15 MR. DAVIS: Just confirming, we're not summing up? At  
16 the earliest, Wednesday?

17 THE COURT: You're not going to sum up tomorrow after  
18 the charge conference.

19 Anything else from the defense?

20 MR. TALKIN: None. Thank you, Judge.

21 THE COURT: Really appreciate it. We're adjourned.  
22 We'll be back here hopefully not at 8:30, but I'm going to have  
23 everyone here ready at 8:30.

24 (Adjourned to April 16, 2024 at 8:30 a.m.)

25 \* \* \*

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